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1959

THE STATE OF HAWAII
DATA BOOK

1984

A STATISTICAL ABSTRACT

DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
FEBRUARY 1985

Hawaii: 25 years of statehood. A lifetime of

During 1984, the State of Hawaii observed its 25th year of Statehood. Above, the logo of the 1984 Hawaii Statehood Silver Jubilee Committee.

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This report was prepared by Robert C. Schmitt, State Statistician, with the assistance of Sharon Nishi, Karen Yamashita, and Maureen St. Michel of the Hawaii State Data Center. The camera-ready copy was typed and proofread by Irene S. Fujimori, Judy F. Noda, and Helen T. Nagafuchi. All of the participating staff are members of the DPED's Research and Economic Analysis Division, headed by Dr. Richard Y. P. Joun. The maps were drawn by Stewart A. Wastell, illustrator in the DPED's Planning Division. Editing and printing arrangements were handled by the DPED's Information Office.

Copies of this report may be obtained for $5.00 each from the Information Office on the 7th floor of the Kamamalu Building, 250 South King Street, Honolulu, or ordered from out of State by sending $15.00 per copy (postpaid) to the DPED Information Office, P. O. Box 2359, Honolulu, Hawaii 96804.

FOREWORD

By George R. Ariyoshi
Governor, State of Hawaii

Accurate, timely and substantial information is essential to sound decision-making. The State of Hawaii has long recognized that orderly State growth and planned prosperity require a continuing, efficient organization of statistical data and other information into forms which are easily used and readily available to all who need them. This State of Hawaii Data Book 1984 is the latest example of the State Administration's constant effort to provide and improve this important service to Hawaii's citizens.

The Data Book is invaluable for Government administrators. It is vital to all agencies, companies, organizations and individuals who carry out a great variety of forms of research in the Islands and overseas. It is very useful to other citizens who have only an occasional need for accurate statistics. It is a book which, thanks to the professionalism of its compilers, can be depended upon, and upon which thousands do depend. And it is only one--although perhaps the best one--of a large number of excellent data sources which Hawaii makes available.

Through such reference works, Hawaii is able to go about its myriad tasks with confidence that its information base is sound. This State of Hawaii Data Book 1984 is one of many proofs we have that our people know what they are doing, and where they are going, and are reasonably certain they can achieve their goals.

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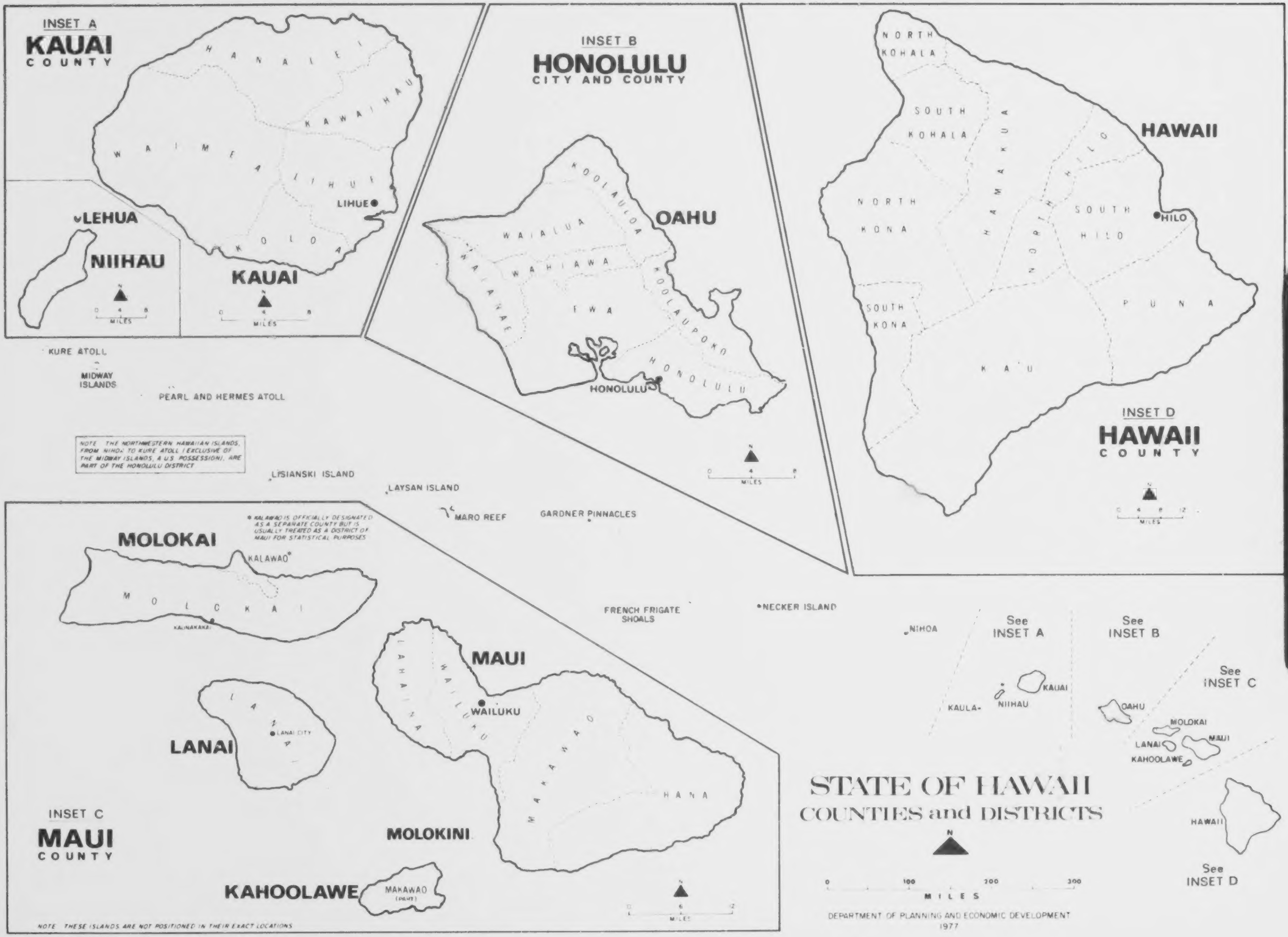


STATE OF HAWAII
COUNTIES and DISTRICTS

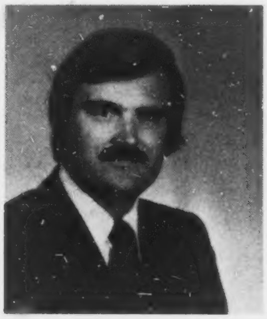
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
1977

NOTE THE NORTHWESTERN HAWAIIAN ISLANDS, FROM NIHOA TO KURE ATOLL (EXCLUSIVE OF THE MIDWAY ISLANDS, A U.S. POSSESSION), ARE PART OF THE HONOLULU DISTRICT

* KALAWAO IS OFFICIALLY DESIGNATED AS A SEPARATE COUNTY BUT IS USUALLY TREATED AS A DISTRICT OF MAUI FOR STATISTICAL PURPOSES

NOTE THESE ISLANDS ARE NOT POSITIONED IN THEIR EXACT LOCATIONS

INSET A
KAUAI COUNTY
HANALEI
KAWAIHAU
WAIMEA
LIHUE
KOLOA
LIHUE
LEHUA
NIIHAU
KAUAI
MILES
INSET B
HONOLULU CITY AND COUNTY
OAHU
KOOLAULOA
WAIALUA
WAIANAE
WAHIAWA
EWA
KOOLAUPOKO
HONOLULU
HONOLULU
INSET D
HAWAII COUNTY
HAWAII
NORTH KOHALA
SOUTH KOHALA
HAMAKUA
NORTH HILO
SOUTH HILO
HILO
NORTH KONA
SOUTH KONA
KA'U
PUNA
KURE ATOLL
MIDWAY ISLANDS
PEARL AND HERMES ATOLL
LISIANSKI ISLAND
LAYSAN ISLAND
MARO REEF
GARDNER PINNACLES
FRENCH FRIGATE SHOALS
NECKER ISLAND
NIHOA
INSET C
MAUI COUNTY
MOLOKAI
KALAWAO*
MOLOKAI
KAUNAKAKAI
MAUI
LAHAINA
WAILUKU
WAILUKU
MAKAWAO
HANA
LANAI
LANAI
LANAI CITY
MOLOKINI
KAHOOLAWE
MAKAWAO (PART)
See INSET A
See INSET B
See INSET C
See INSET D
KAULA
NIIHAU
KAUAI
OAHU
MOLOKAI
MAUI
LANAI
KAHOOLAWE
HAWAII
N
0
100
200
300
MILES



INTRODUCTION

By Kent M. Keith
Director of Planning and Economic Development

The State of Hawaii Data Book: A Statistical Abstract is the standard official summary of statistics on the social, economic and political organization of the State. Like its long-established counterpart, the Statistical Abstract of the United States, it may be used as a convenient volume of statistical reference and as a guide to other statistical publications and sources.

The present volume, containing statistics available at the end of 1984, is the 18th such abstract to be published by the State of Hawaii. Earlier editions appeared in 1962, 1967, 1968, and annually beginning in 1970. Most of them are now out of print, but copies can be found in many high school, university and public libraries in Hawaii.

The Data Book follows closely the organization and format of the U.S. Abstract, to facilitate comparison of Hawaii data with corresponding series for the nation and other jurisdictions.

Emphasis in the Data Book is given to the most recent available State data. Historical statistics and information for Counties, islands, urban places, and smaller areas receive more limited attention. The publications cited as sources in the introductions to the various sections or at the end of each table usually contain additional statistical detail and a more comprehensive discussion of relevant definitions and concepts than can be presented here. Persons interested in more extensive information should consult these sources or write to the agencies responsible for them.

In addition to the many series presented in earlier editions, this edition presents findings of the 1982 economic censuses, greater detail from the 1980 population and housing censuses, revised and updated estimates from the Hawaii income and expenditure accounts study, and 1984 election results. Largely as a result of federal budget reductions, however, many important statistical series have been suspended or terminated. For most of these discontinued series, the most recent available information has been repeated in this edition, appropriately footnoted.

Many Federal, State, County and private organizations cooperated with our Research and Economic Analysis Division in the preparation of this report. These agencies are credited in the source references to the tables to which they contributed. Their assistance is gratefully acknowledged. Within our department, the DPED Library and Hawaii State Data Center were especially helpful.

GUIDE TO TABULAR PRESENTATION

The tables in this report generally follow the principles of tabular presentation used by the U.S. Bureau of the Census in its annual publication, Statistical Abstract of the United States, and described in Bureau of the Census Manual of Tabular Presentation, published by the Bureau in 1950. These principles have been accepted by the Department of Planning and Economic Development for use in its publications and recommended to all other State agencies for official use.

Headnotes immediately below table titles provide information important for correct interpretation or evaluation of the table as a whole or for a major segment of it.

Unit indicators ("In thousands," "In millions of dollars," etc.) are usually given as the first element of the headnote. In tables where several units are used, the unit indicators are generally given in the stub or in the column headings.

Footnotes below the bottom rule of tables give information relating to specific items, figures or symbols within the table.

Parallel vertical rules are used to the right of a total column to indicate --

(1) that the components which follow add to the total;
(2) in the case of derived figures, that the underlying data are additive to their total.

A dash (-) represents zero in references to absolute values. In rates and percentages, a zero (0) is used.

In many tables, details will not add to the totals shown because of rounding.

Geographic coverage should be understood as Statewide, unless otherwise indicated in the table title, headnote, boxhead, or stub. All annual statistics should be understood as referring to calendar years unless otherwise indicated.

UNITED STATES AND METRIC WEIGHTS AND MEASURES

U.S.			to	Metric	Metric			to	U.S.
Length									
Inches	x	25.4	=	millimeters	millimeters	x	0.039	=	inches
Feet	x	0.305	=	meters	meters	x	3.281	=	feet
Statute miles	x	1.609	=	kilometers	kilometers	x	0.621	=	miles
Area									
Sq. feet	x	0.093	=	sq. meters	sq. meters	x	10.764	=	sq. feet
Acres	x	0.405	=	hectares	hectares	x	2.471	=	acres
Sq. miles	x	2.589	=	sq. kilometers	sq. kilometers	x	0.386	=	sq. miles
Volume and capacity									
Cubic feet	x	0.028	=	cu. meters	cu. meters	x	35.315	=	cu. feet
Cubic yards	x	0.765	=	cu. meters	cu. meters	x	1.308	=	cu. yards
Fluid ounces	x	29.573	=	milliters	milliters	x	0.034	=	fluid ounces
Quarts (liq.)	x	0.946	=	liters	liters	x	1.057	=	quarts (liq.)
Gallons (liq.)	x	3.785	=	liters	liters	x	0.264	=	gallons (liq.)
Mass									
Ounces (avdp.)	x	28.350	=	grams	grams	x	0.035	=	ounces (avdp.)
Pounds (avdp.)	x	0.454	=	kilograms	kilograms	x	2.205	=	pounds (avdp.)
Hundredweight	x	45.359	=	kilograms	kilograms	x	0.022	=	hundredweight
Short tons	x	0.907	=	metric tons	metric tons	x	1.102	=	short tons

Miscellaneous conversions
1 statute mile = 5,280 ft. = 1,760 yards
1 acre = 43,560 sq. feet
1 square mile = 640 acres
1 short ton = 2,000 pounds

Continued on next page.

UNITED STATES AND METRIC WEIGHTS AND MEASURES -- Con.

Fahrenheit	to	Celsius	Celsius	to	Fahrenheit
Temperature					
100 °F		37.8 °C	40 °C		104.0 °F
90		32.2	35		95.0
80		26.7	30		86.0
70		21.1	25		77.0
60		15.6	20		68.0
50		10.0	15		59.0
40		4.4	10		50.0
30		-1.1	5		41.0
20		-6.7	0		32.0
10		-12.2	-5		23.0
			-10		14.0

Source: U.S. National Bureau of Standards, Special Publication 304a; Department of Geography, University of Hawaii, Atlas of Hawaii, 2nd edition (1983), pp. 218-219.

POPULATION

This section presents statistics on the growth, geographic distribution, and composition of the population of Hawaii, and on the number and characteristics of migrants moving to and from the State.

Provisional estimates for 1984 indicate a resident population of 1,039,000. This total is well above the 1980 census count of 964,691 and the earlier counts of 423,000 in 1940, 154,000 in 1900, and 84,000 in 1850. These censuses and estimates include members of the armed forces stationed in Hawaii and their local dependents, a group making up 12 percent of the resident total when last surveyed. The 1983 de facto population -- which included 108,000 visitors present on an average day in that year but excluded more than 11,000 residents temporarily absent -- was 1,115,000. More than three-fourths of the 1983 de facto total was on Oahu, giving that island a density of 1,427 persons per square mile. The population of the State is relatively young -- the median age in 1980 was 28.3 years -- and racially diversified. The major unmixed groups, based on a 1983 sample survey, were Caucasians (24.5 percent of the non-barracks, non-institutional population) and Japanese (23.2 percent). In addition, 29.8 percent were of mixed race, primarily part Hawaiian. The same 1983 survey reported 314,000 households and 258,000 families in the State, with an average household size of 3.14. Migration has been a major factor in the growth of the population: between 1970 and 1980, there was a net in-migration (excluding military personnel and dependents) of 106,000, accounting for 56 percent of the total civilian population growth during that time. Immigrant arrivals in fiscal 1984 exceeded 5,400, mostly from the Philippines.

The comparison of demographic data from different sources is often complicated by the use of differing definitions and coverage. Most series, for example, refer to resident population, while others pertain to de facto population; the latter, unlike the former, includes visitors present but excludes residents temporarily absent. Total resident population includes armed forces stationed in an area, as well as their dependents in the area; civilian population excludes military personnel but includes their dependents. Perhaps the greatest confusion is that resulting from the arbitrary classification of persons of mixed race in the 1970 and 1980 U.S. Censuses. Such groups were shown separately in earlier censuses, and are still reported separately in data issued by many State agencies.

The principal sources for these data are the decennial population censuses conducted by the U.S. Bureau of the Census, the estimates developed annually by the Hawaii State Department of Health and Department of Planning and Economic Development in cooperation with the Bureau of the Census, the Hawaii Health Surveillance Program conducted regularly since 1969 by the Department of Health, the ongoing series on visitors present and residents absent maintained by the Hawaii Visitors

Bureau, and the U.S. Immigration and Naturalization Service tabulations on immigration. The Department of Planning and Economic Development summarizes these data in two series of reports, both issued annually: The Population of Hawaii and Hawaii's In-Migrants. Other annual reports distributed by DPED contain population estimates for Oahu census tracts and Neighbor Island districts. Earlier figures on population and migration are given in Historical Statistics of Hawaii, Sections 1 and 3. Comparable national statistics on population and migration appear in sections 1 and 3 of Statistical Abstract of the United States: 1984.

Table 1.-- POPULATION, URBAN AND RURAL: 1831 TO 1980

[Population counts from missionary censuses of 1831-1832 and 1835-1836, censuses conducted by the Hawaiian government from 1850 to 1896, and censuses by the U.S. Bureau of the Census beginning in 1900. Data for 1831-1896 are on a de facto or unspecified basis; data for 1900 and later years are resident totals, including armed forces stationed in Hawaii]

Census date	Total population		Urban 1/		Rural 2/	
	Number	Percent change 3/	Places	Population	Population	Percent of total
1831-32 4/	129,814	...	1	13,344	116,470	89.7
1835-36 5/	108,568	-4.5	1	12,994	95,574	88.0
1850: January ..	84,165	-1.8	1	14,484	69,681	82.8
1853: Dec. 26 ..	73,138	-3.5	1	11,455	61,683	84.3
1860: Dec. 24 ..	69,800	-0.7	1	14,310	55,490	79.5
1866: Dec. 7 ...	62,959	-1.7	1	13,521	49,438	78.5
1872: Dec. 27 ..	56,897	-1.7	1	14,852	42,045	73.9
1878: Dec. 27 ..	57,985	0.3	1	14,114	43,871	75.7
1884: Dec. 27 ..	80,578	5.5	1	20,487	60,091	74.6
1890: Dec. 28 ..	89,990	1.8	1	22,907	67,083	74.5
1896: Sept. 27 .	109,020	3.3	1	29,920	79,100	72.6
1900: June 1 ...	154,001	9.4	1	39,306	114,695	74.5
1910: April 15 .	191,874	2.2	2	58,928	132,946	69.3
1920: January 1	255,881	3.0	2	92,251	163,630	63.9
1930: April 1 ..	368,300	3.6	12	197,937	170,363	46.3
1940: April 1 ..	422,770	1.4	17	264,262	158,508	37.5
1950: April 1 ..	499,794	1.7	17	344,869	154,925	31.0
1960: April 1 ..	632,772	2.4	19	483,961	148,811	23.5
1970: April 1 ..	769,913	2.0	34	643,222	126,691	16.5
1980: April 1 ..	964,691	2.3	42	834,592	130,099	13.5

1/ The urban population comprises all persons living in urbanized areas (first defined for Hawaii in 1960) and in places of 2,500 or more outside urbanized areas. Statistical boundaries were first established for Honolulu in 1831, Hilo in 1911 (for 1910 census tabulations), and other urban places beginning in 1930.

2/ The rural population includes all persons living outside urban places.

3/ Annual rate since the preceding census, based on the formula for continuous compounding.

4/ Total population also reported as 130,313.

5/ Total population also reported as 108,393 and 108,579.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 8; U. S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 1, as corrected.

Table 2.-- CHARACTERISTICS OF THE POPULATION: 1831 TO 1980

[See headnote to table 1]

Year	Percent living on Oahu	Males per 100 females	Percent under 15 years old	Percent white 1/	Percent born in Hawaii	Persons per household 2/
1831-32 .	22.8	105.3	26.1	(NA)	(NA)	(NA)
1935-36 .	25.6	(NA)	(NA)	(NA)	(NA)	(NA)
1850	30.2	110.1	(NA)	(NA)	(NA)	(NA)
1853	26.2	113.1	(NA)	2.3	97.5	(NA)
1860	30.5	116.1	(NA)	2.7	(NA)	(NA)
1866	31.4	120.4	26.5	3.8	(NA)	(NA)
1872	36.3	125.4	27.8	5.2	92.1	(NA)
1878	34.9	142.8	28.1	6.5	83.6	(NA)
1884	34.8	177.5	28.0	20.6	57.4	(NA)
1890	34.7	187.7	26.1	21.0	53.5	(NA)
1896	36.9	198.7	27.7	20.6	48.8	(NA)
1900	38.0	223.3	22.6	17.3	38.3	3.71
1910	42.7	178.9	29.5	20.4	45.1	(NA)
1920	48.3	144.3	35.5	19.2	53.3	(NA)
1930	55.1	152.8	36.2	20.0	58.2	(NA)
1940	61.0	137.6	30.9	24.5	65.8	4.46
1950	70.6	121.2	31.2	23.0	71.1	4.14
1960	79.1	114.8	34.4	32.0	66.6	3.87
1970	81.9	108.1	30.0	39.2	59.2	3.59
1980	79.0	105.2	23.4	34.4	57.8	3.15

NA Not available.

1/ Includes Portuguese and most Puerto Ricans. Data for 1970 and 1980 also include some persons of mixed race.

2/ Based on population in households.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 11, 20, 25, 33, and 90; U.S. Bureau of the Census, 1980 Census of Population, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), tables 14, 17, and 20, and General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 3.-- RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1984

[Excludes visitors present but includes residents temporarily absent]

Year		Total resident population	Armed forces 1/	Civilian population		
				All civilians	Military dependents 2/	Not military dependents
1970:	April 1 .	769,913	55,142	714,771	61,858	652,913
	July 1 ..	771,600	53,800	717,800	57,800	660,100
1971:	July 1 ..	801,600	50,800	750,800	62,200	688,700
1972:	July 1 ..	828,300	52,000	776,400	66,200	710,100
1973:	July 1 ..	851,600	58,100	793,500	70,300	723,200
1974:	July 1 ..	868,000	57,500	810,500	68,300	742,100
1975:	July 1 ..	886,200	58,800	827,400	63,700	763,700
1976:	July 1 ..	904,200	57,800	846,400	67,000	779,400
1977:	July 1 ..	918,300	56,500	861,800	65,000	796,800
1978:	July 1 ..	931,600	58,300	873,300	61,100	812,200
1979:	July 1 ..	953,300	57,900	895,400	64,500	830,900
1980:	April 1 .	964,691	57,056	907,635	64,023	843,612
	July 1 ..	968,900	57,900	911,000	64,100	846,900
1981:	July 1 ..	981,000	56,600	924,400	64,300	860,100
1982:	July 1 ..	997,100	54,900	942,200	66,700	875,500
1983:	July 1 ..	1,018,300	55,200	963,100	66,300	896,800
1984:	July 1 3/	1,038,700	57,300	981,400	67,100	914,300

1/ These figures are the estimates developed by the U.S. Bureau of the Census for use in population estimation. They differ somewhat from corresponding figures from other sources.

2/ Dependents living in Hawaii, regardless of location of family head.

3/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (forthcoming).

Table 4.-- RESIDENT AND DE FACTO POPULATION, BY RESIDENCE STATUS: 1970 TO 1984

Year	Resident population 1/		De facto population 2/	
	Total	Temporarily absent 3/	Total	Visitors present 3/
1970: April 1 ..	769,913	10,300	796,500	36,900
July 1 ...	771,600	10,000	798,600	36,900
1971: July 1 ...	801,600	9,400	833,100	40,900
1972: July 1 ...	828,300	8,600	869,800	50,100
1973: July 1 ...	851,600	9,800	901,300	59,600
1974: July 1 ...	868,000	7,800	923,700	63,500
1975: July 1 ...	886,200	9,000	943,500	66,300
1976: July 1 ...	904,200	9,400	970,300	75,500
1977: July 1 ...	918,300	9,000	992,300	83,000
1978: July 1 ...	931,600	9,300	1,014,300	92,000
1979: July 1 ...	953,300	9,300	1,042,700	98,700
1980: April 1 ..	964,691	9,600	1,052,700	97,600
July 1 ...	968,900	9,600	1,055,800	96,500
1981: July 1 ...	981,000	11,600	1,065,300	96,000
1982: July 1 ...	997,100	14,500	1,087,800	105,300
1983: July 1 ...	1,018,300	11,500	1,114,800	108,000
1984: July 1 4/	1,038,700	(NA)	1,140,600	(NA)

NA Not available.

1/ The resident population is defined as the number of persons whose usual place of residence is in an area, regardless of physical location on the estimate or census date. It includes military personnel stationed or homeported in the area but excludes persons of local origin attending school or in military service outside the area.

2/ The de facto population is defined as the number of persons physically present in an area, regardless of usual place of residence; it includes visitors present but excludes residents temporarily absent.

3/ Averages for 12-month periods centered on the estimate or census dates.

4/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (forthcoming).

Table 5.-- RESIDENT POPULATION OF ISLANDS: 1940 TO 1980

Island	1940	1950	1960	1970	1980
State of Hawaii	422,770	499,794	632,772	769,913	964,691
Hawaii	73,276	68,350	61,332	63,468	92,053
Kahoolawe	1	-	-	-	-
Maui 1/	46,919	40,103	35,717	38,691	62,823
Lanai	3,720	3,136	2,115	2,204	2,119
Molokai	5,340	5,280	5,023	5,261	6,049
Oahu and offshore islands	257,664	353,006	500,394	630,497	762,534
Oahu	(NA)	(NA)	(NA)	629,631	761,925
Sand Island	(NA)	(NA)	36	56	60
Mokauea Island	(NA)	(NA)		12	11
Ford Island	(NA)	(NA)	(NA)	798	522
Moku o Loe	(NA)	(NA)	(NA)	-	16
Kauai	35,636	29,683	27,922	29,524	38,856
Niihau 2/	182	222	254	237	226
Northwestern Haw'n Islands 3/ ..	-	14	15	31	31
French Frigate Shoals	-	14	(NA)	(NA)	4
Laysan Island	-	-	(NA)	(NA)	5
Kure Atoll	-	-	(NA)	(NA)	22
Midway Islands 4/	437	416	2,356	2,220	453
Johnston Atoll 4/	69	46	156	1,007	327
Kingman Reef 4/	-	-	-	-	-
Palmyra Atoll 5/	32	-	-	-	-

NA Not available.

1/ Including Molokini, uninhabited.

2/ Including Lehua and Kaula, uninhabited.

3/ Including Nihoa, Necker Island, Gardner Pinnacles, Maro Reef, Lisianski Island, and Pearl and Hermes Atoll, all uninhabited.

4/ Not part of the Territory or State of Hawaii.

5/ Part of the Territory of Hawaii but not part of the State of Hawaii.

Source: U.S. Bureau of the Census, decennial census bulletins on number of inhabitants, census tracts, and block statistics.

Table 6.-- RESIDENT POPULATION, BY COUNTIES: 1970 TO 1984

[Based on place of usual residence. Includes armed forces stationed or homeported in Hawaii and residents temporarily absent; excludes visitors present]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1 ...	769,913	630,528	63,468	29,761	46,156
July 1	771,600	631,600	63,800	29,800	46,500
1971: July 1	801,600	654,600	67,000	30,900	49,100
1972: July 1	828,300	674,900	70,000	31,900	51,500
1973: July 1	851,600	691,400	73,900	32,900	53,400
1974: July 1	868,000	707,600	74,000	32,600	53,800
1975: July 1	886,200	718,600	77,400	33,400	56,800
1976: July 1	904,200	728,300	80,700	34,900	60,300
1977: July 1	918,300	737,000	82,800	35,500	63,000
1978: July 1	931,600	742,600	85,900	36,800	66,200
1979: July 1	953,300	756,000	89,400	38,100	69,700
1980: April 1 ...	964,691	762,565	92,053	39,082	70,991
July 1	968,900	764,800	93,000	39,400	71,600
1981: July 1	981,000	769,200	97,000	40,600	74,200
1982: July 1	997,100	778,100	100,100	41,900	76,900
1983: July 1	1,018,300	789,700	105,700	43,200	79,600
1984: July 1 2/ .	1,038,700	803,000	107,800	44,600	83,300

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (forthcoming).

Table 7.-- DE FACTO POPULATION, BY COUNTIES: 1970 TO 1984

[Includes all persons physically present in area, regardless of military status or usual place of residence. Includes visitors present but excludes residents temporarily absent, both calculated as averages for 12-month periods centered on estimate date]

Date	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County 1/
1970: April 1 ...	796,500	650,700	65,700	31,800	48,400
July 1	798,600	650,200	66,600	32,300	49,400
1971: July 1	833,100	675,300	70,600	34,000	53,100
1972: July 1	869,800	702,200	74,500	35,800	57,200
1973: July 1	901,300	726,400	78,700	36,900	59,400
1974: July 1	923,700	746,500	79,500	36,800	60,900
1975: July 1	943,500	757,100	83,300	38,100	65,100
1976: July 1	970,300	772,900	86,800	40,100	70,500
1977: July 1	992,300	786,800	89,300	41,300	74,900
1978: July 1	1,014,300	797,200	93,400	43,600	80,100
1979: July 1	1,042,700	816,000	96,700	45,200	84,800
1980: April 1 ...	1,052,700	822,000	98,700	46,100	85,900
July 1	1,055,800	823,600	99,500	46,400	86,400
1981: July 1	1,065,300	826,300	102,600	47,500	89,000
1982: July 1	1,087,800	839,700	105,600	48,500	94,000
1983: July 1	1,114,800	846,900	113,400	50,900	103,600
1984: July 1 2/ .	1,140,600	865,200	115,800	52,500	107,100

1/ Including Kalawao County (Kalaupapa Settlement).

2/ Provisional estimates.

Source: Hawaii State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (forthcoming).

Table 8.-- DE FACTO POPULATION, 1970 AND 1980, AND DENSITY, 1980, OF COUNTIES AND ISLANDS

[Includes visitors present and excludes residents temporarily absent, both calculated as annual averages centered on the census date]

County and island	De facto population 1/			De facto density, 1980 2/	
	April 1, 1970	April 1, 1980	Percent change	Per square mile	Per square km.
State total	796,500	1,052,700	32.2	163.8	63.3
City and County of Honolulu	650,700	822,000	26.3	1,378.5	532.2
Oahu	650,700	822,000	26.3	1,384.7	534.7
Outlying islands 2/	31	31	0	11.5	4.4
Other counties	145,800	230,700	58.2	39.6	15.3
Hawaii	65,700	98,700	50.3	24.5	9.4
Kauai	31,800	46,100	45.3	74.4	28.7
Kauai	31,500	45,900	45.7	83.6	32.3
Kaula and Lehua	-	-	...	-	-
Niihau	237	226	-4.6	3.2	1.3
Maui and Kalawao.........	48,400	85,900	77.3	73.1	28.2
Kahoolawe	-	-	...	-	-
Lanai	2,200	2,100	-3.4	15.2	5.9
Maui	40,900	76,800	87.8	105.4	40.7
Molokai	5,300	6,900	30.2	26.5	10.2
Kalawao	172	144	-16.3	10.8	4.2
Rest of Molokai	5,100	6,800	31.7	27.3	10.5

1/ These estimates have been independently rounded to the nearest 100 (except for the smallest areas) and hence may not add exactly to the indicated totals.

2/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, but excluding Midway.

Source: Estimated by the Hawaii State Department of Planning and Economic Development, from 1980 resident population counts in 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4; data on visitors present and residents absent supplied by the Hawaii Visitors Bureau; and area estimates from the Geography Division of the U.S. Bureau of the Census.

Table 9.-- RESIDENT POPULATION OF COUNTIES AND DISTRICTS: 1970, 1980, AND 1983

				Percent change	
County and district	April 1, 1970	April 1, 1980	Jan. 1, 1983	1970 to 1980	1980 to 1983
State total	769,913	964,691	1,010,500	25.3	4.7
Hawaii County	63,468	92,053	102,100	45.0	10.9
Puna	5,154	11,751	14,765	128.0	25.6
South Hilo	33,915	42,278	44,699	24.7	5.7
North Hilo	1,881	1,679	1,852	-10.7	10.3
Hamakua	4,648	5,128	5,364	10.3	4.6
North Kohala	3,326	3,249	3,386	-2.3	4.2
South Kohala	2,310	4,607	5,271	99.4	14.4
North Kona	4,832	13,748	16,266	184.5	18.3
South Kona	4,004	5,914	6,457	47.7	9.2
Ka'u	3,398	3,699	4,040	8.9	9.2
Maui County 1/	46,156	70,991	78,350	53.8	10.4
Hana	969	1,423	1,526	46.9	7.2
Makawao	9,979	19,005	20,653	90.4	8.7
Wailuku	22,219	32,111	35,988	44.5	12.1
Lahaina	5,524	10,284	11,522	86.2	12.0
Lanai	2,204	2,119	2,217	-3.9	4.6
Molokai	5,089	5,905	6,283	16.0	6.4
Kalawao	172	144	161	-16.3	11.8
City & Co. of Honolulu	630,528	762,565	787,350	20.9	3.3
Honolulu	324,871	365,048	373,311	12.4	2.3
Koolaupoko	92,219	109,373	112,322	18.6	2.7
Koolauloa	10,562	14,195	15,845	34.9	11.6
Waialua	9,171	9,849	10,893	7.4	10.6
Wahiawa	37,329	41,562	41,858	11.3	0.7
Waianae	24,077	31,487	31,883	30.8	1.3
Ewa	132,299	191,051	201,238	44.4	5.3
Kauai County	29,761	39,082	42,800	31.3	9.5
Hanalei	1,182	2,668	3,442	125.7	29.0
Kawaihau	7,393	10,497	11,885	42.0	13.2
Lihue	6,766	8,590	9,127	27.0	6.3
Koloa	6,851	8,734	9,555	27.5	9.4
Waimea	7,569	8,593	8,791	13.5	2.3

1/ Including Kalawao County.

Source: U.S. Bureau of the Census, 1980 Census of Population, Number of Inhabitants, Hawaii, PC80-1-A13 (October 1981), table 4; Hawaii State Census Statistical Areas Committee, Estimated Population of Hawaii by Districts, 1983 (Report CTC-60, September 4, 1984).

Table 10.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980

[This table presents data for the 101 "census designated places" defined by the Hawaii State Department of Planning and Economic Development, in cooperation with the Bureau of the Census, for the 1980 decennial census, under authority granted by Sec. 26-18, Hawaii Revised Statutes, 1976 Replacement. Although described in the legislation as "cities, towns, and villages," none of these places is an independent municipality with separate governmental and taxing powers; the boundaries determined for these places are statistical rather than political]

Island and place 1/	Resident population
Hawaii	92,053
Captain Cook	2,008
Hakalau	250
Hawi	795
Hilo	35,269
Holualoa	1,243
Honokaa	1,936
Honomu	559
Kailua	4,751
Kainaliu	512
Kapaau	612
Keaau	775
Kealakekua	1,033
Kukuihaele	332
Laupahoehoe	500
Makapala	186
Mountain View	540
Naalehu	1,168
Ookala	401
Paauilo	755
Pahala	1,619
Pahoa	923
Papaaloa	264
Papaikou	1,567
Paukaa	544
Puako	257
Waimea	1,179
Wainaku	1,045
Remainder of island	31,030
Maui and Molokini	62,823
Haiku	619
Haliimali	741
Hana	643
Honokahua	309
Kaanapali	541
Kahului	12,978
Kihei	5,644
Lahaina	6,095
Lower Paia	1,500
Makawao	2,900
Napili-Honokowai	2,446
Paia	193
Pauwela	468
Pukalani	3,950
Puunene	572
Waihee	413
Waikapu	698
Wailea	1,124
Wailuku	10,260
Remainder of island	10,729
Kahoolawe	-
Lanai	2,119
Lanai City	2,092
Remainder of island	27

Continued on next page.

Table 10.-- RESIDENT POPULATION, OF ISLANDS, CITIES, TOWNS, AND VILLAGES: 1980 -- Con.

Island and place 1/	Resident population
Molokai	6,049
Kaunakakai	2,231
Kualapuu	502
Maunaloa	633
Remainder of island	2,683
Oahu (including Northwestern Hawaiian Islands)	762,565
Ahuimanu	6,238
Aiea	32,879
Barbers Point Housing	1,373
Ewa	2,637
Ewa Beach	14,369
Haleiwa	2,412
Hauula	2,997
Heeia	5,432
Hickam Housing	4,425
Honolulu total	365,048
Oahu part	365,017
Northwestern Hawaiian Islands	31
Iroquois Point	3,915
Kaaawa	959
Kahaluu	2,925
Kahuku	935
Kailua	35,812
Kaneohe	29,919
Laie	4,643
Maili	5,026
Makaha	6,582
Makakilo City	7,691
Maunawili	5,239
Mililani Town	21,365
Mokapu	11,615
Oahu (con.):	
Nanakuli	8,185
Pearl City	42,575
Schofield Barracks	18,851
Wahiawa	16,911
Waialua	4,051
Waianae	7,941
Waimanalo	3,562
Waimanalo Beach	4,161
Waipahu	29,139
Waipio Acres	4,091
Whitmore Village	2,318
Remainder of island	46,344
Kauai	38,856
Anahola	915
Eleele	580
Hanalei	483
Hanamaulu	3,227
Hanapepe	1,417
Kalaheo	2,500
Kapaa	4,467
Kaumakani	888
Kekaha	3,260
Kilauea	895
Koloa	1,457
Lihue	4,000
Poipu	685
Princeville	500
Puhi	991
Wailua	1,587
Waimea	1,569
Remainder of island	9,435
Niihau, Lehua and Kaula	226

1/ For boundaries of places, see Hawaii State Department of Planning and Economic Development, Statistical Boundaries of Cities, Towns and Villages As Approved Through December 31, 1979 (Report SB-A15, March 13, 1980).

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A13, Hawaii (October 1981), table 4, and unpublished final counts for places under 300 based on enumeration district data supplied February 13, 1981.

Table 11.-- POPULATION CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

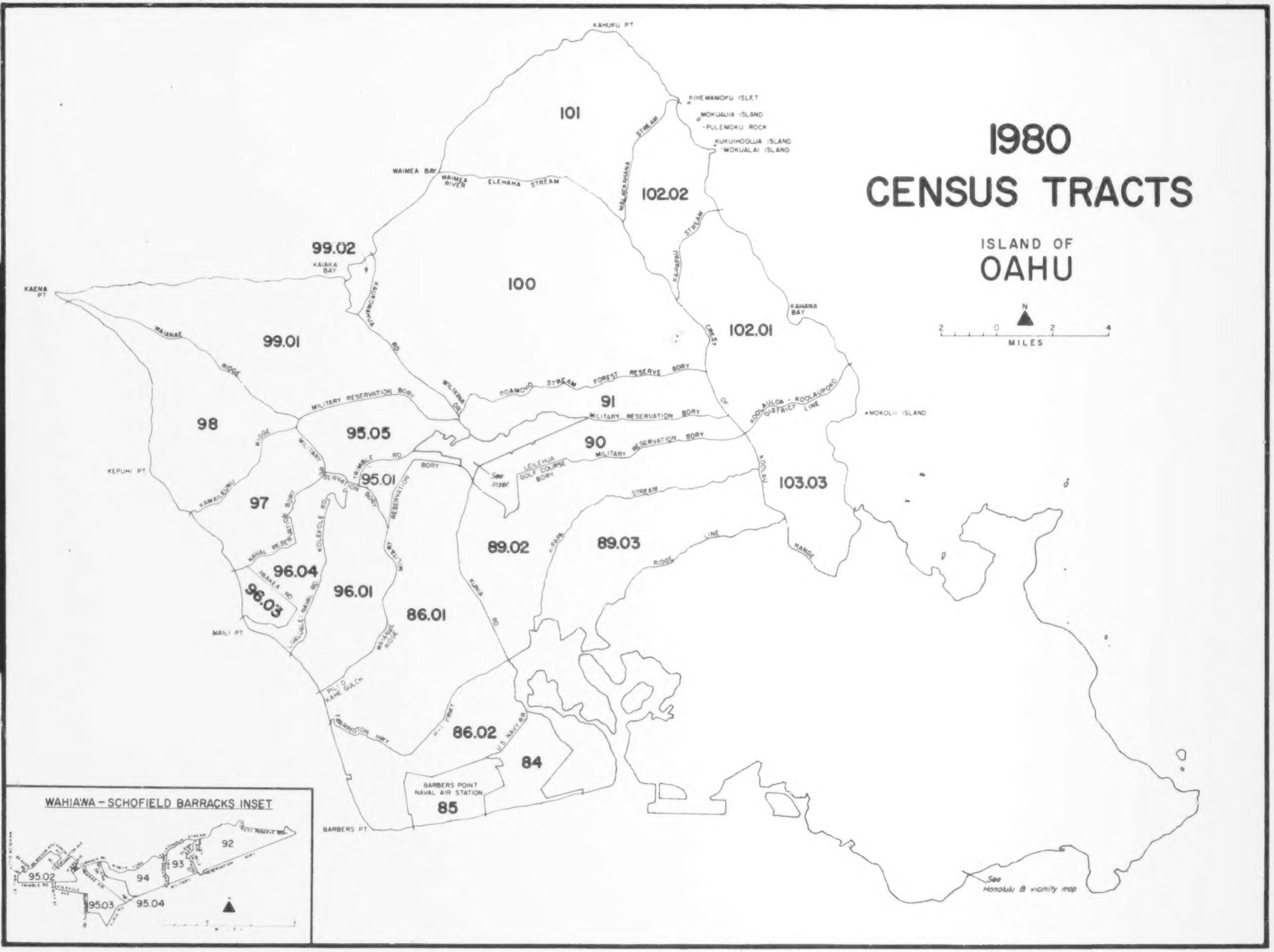
Neighborhood 1/	Resident population	Households	Percent foreign born	Civilian labor force: percent unemployed	Households: median income in 1979 (dollars)
Oahu total	762,534	230,214	14.8	4.6	21,077
Hawaii Kai	25,603	7,518	9.2	2.4	34,928
Kuliouou	14,172	4,316	9.8	3.6	37,986
Waialae-Kahala	11,474	3,882	10.5	2.3	37,385
Kaimuki	19,603	6,314	10.0	2.8	26,260
Diamond Head/ Kapahulu	21,191	7,853	14.6	3.3	20,453
Palolo	14,110	4,092	14.4	4.2	21,457
Manoa	22,605	6,536	10.8	3.8	27,347
McCully/Moiliili ...	26,644	12,188	21.0	4.8	16,082
Waikiki	17,384	9,852	22.4	5.7	14,562
Makiki/Tantalus	28,695	14,050	10.0	3.7	17,179
Ala Moana/Kakaako ..	10,032	5,505	25.0	4.7	14,842
Nuuanu/Punchbowl ...	16,166	5,361	13.7	4.1	22,714
Downtown	8,674	4,406	26.7	5.3	14,631
Liliha/Kapalama	21,068	6,429	19.1	4.0	22,107
Kalihi/Palama	40,144	10,837	35.4	5.0	14,280
Kalihi Valley	17,613	3,885	30.2	4.0	23,513
Moanalua	12,948	3,400	9.4	3.9	21,532
Aliamanu/Salt Lake .	31,199	9,290	17.2	5.2	18,221
Airport	28,436	5,416	10.3	8.9	14,149
Aiea	30,084	8,925	12.2	4.6	25,393
Pearl City	42,577	11,140	12.2	4.1	29,345
Waipahu	33,927	8,261	26.1	5.9	23,865
Ewa	35,585	8,988	14.0	8.0	19,458
Waianae Coast	31,487	7,964	7.6	7.7	15,596
Mililani/Waipio	26,134	7,801	10.0	4.1	26,338
Wahiawa	41,562	10,271	11.4	8.5	13,343
North Shore	13,061	3,899	16.0	5.7	17,873
Koolauloa	10,983	2,687	19.9	3.7	15,426
Kahaluu	11,782	3,360	4.8	3.3	24,984
Kaneohe	35,553	9,698	5.6	4.4	28,652
Kailua	41,291	12,099	6.0	4.1	28,546
Waimanalo	9,132	2,137	8.3	5.8	19,407
Mokapu	11,615	1,854	6.1	9.9	13,814

1/ For boundaries, see maps that accompany source.

Source: U.S. Bureau of the Census, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983).

1980
CENSUS TRACTS

ISLAND OF
OAHU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See Honolulu & vicinity map
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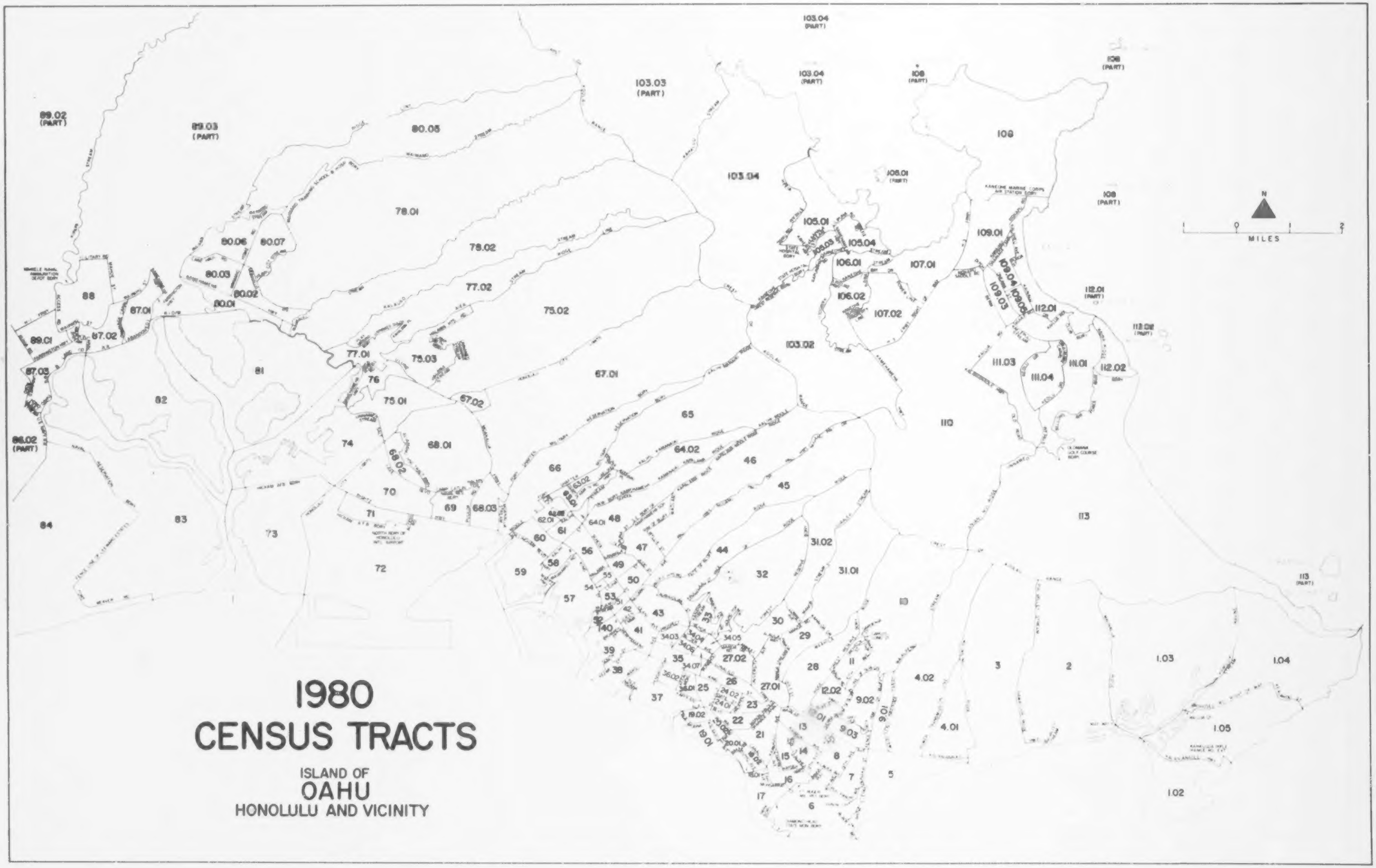
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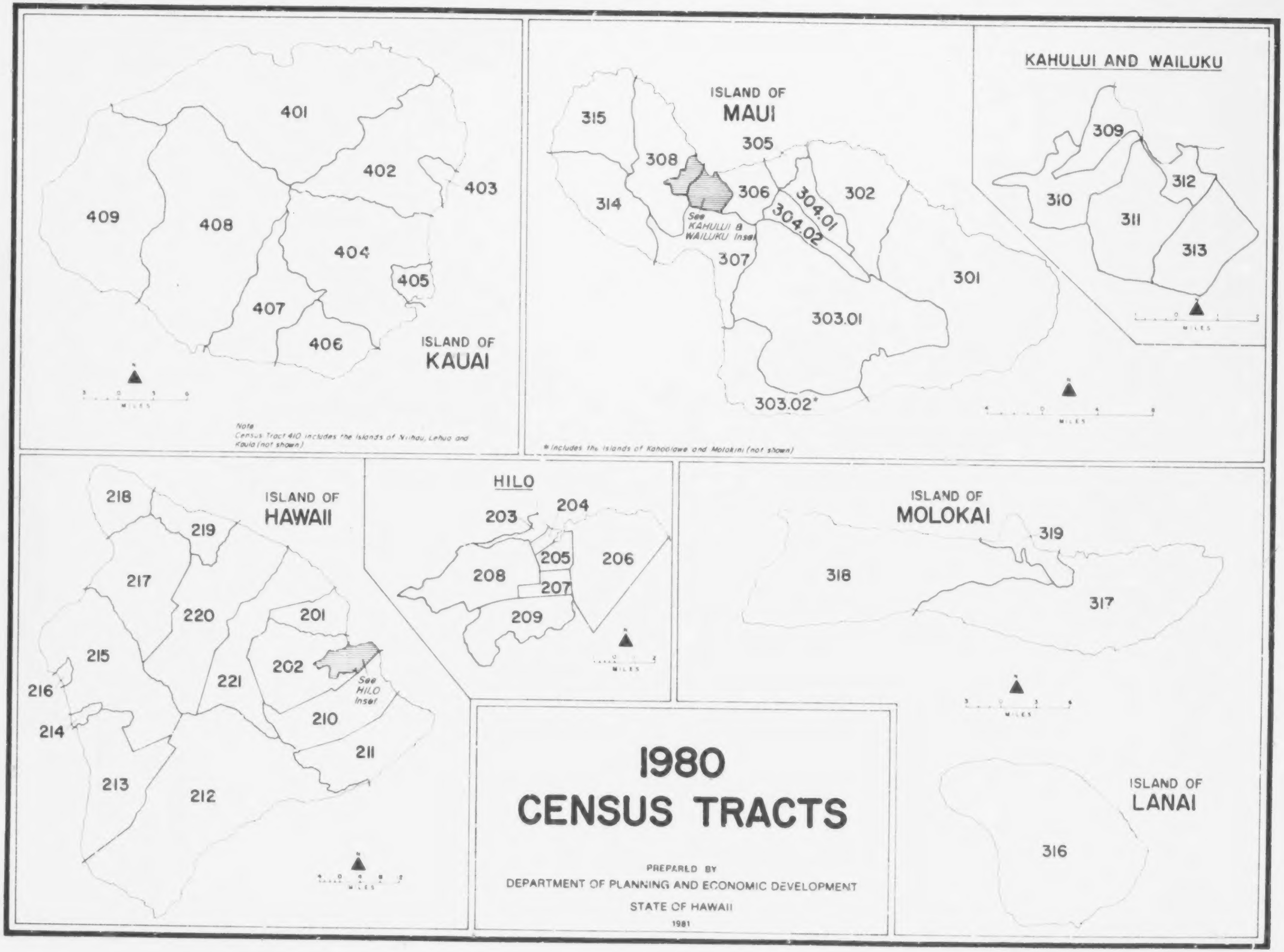
1980
CENSUS TRACTS

ISLAND OF
OAHU
HONOLULU AND VICINITY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ISLAND OF
LANAI
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MILES

Note
Census Tract 410 includes the islands of Niihau, Lehua and Kaula (not shown)

* Includes the islands of Kahoolawe and Molokini (not shown)

1980 CENSUS TRACTS

PREPARED BY
DEPARTMENT OF PLANNING AND ECONOMIC DEVELOPMENT
STATE OF HAWAII
1981

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Table 12.-- RESIDENT POPULATION, 1970 TO 1983, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	Jan. 1, 1983 3/	
County total	381,632	222,639	630,528	762,565	787,350	230,214
Honolulu District	56,783	33,147	324,871	365,048	373,311	127,139
1.02	778	776	1,915	2,067	2,054	599
1.03	2,989	1,439	3,243	10,784	11,912	3,462
1.04 (1.01 pt.) ...	2,264	1,213	1,834	7,202	7,540	1,947
1.05 (1.01 pt.) ...	1,386	1,276	5,580	5,550	5,515	1,510
2	2,711	626	5,123	4,970	5,698	1,485
3	2,301	512	6,485	5,518	5,486	1,696
4.01	582	360	1,571	2,734	2,870	804
4.02	1,618	282	2,898	3,438	3,562	1,064
5	698	694	5,253	4,711	4,633	1,668
6	790	783	2,025	1,654	1,667	556
7	235	235	3,794	3,350	3,335	1,022
8	221	221	4,599	4,137	4,100	1,288
9.01	219	106	2,773	2,621	2,605	925
9.02	332	294	4,392	3,912	3,885	1,324
9.03	153	153	3,514	2,932	2,905	1,005
10	2,202	352	3,650	3,213	3,243	924
11	190	167	4,586	4,077	4,067	1,025
12.01	138	133	3,657	3,227	3,248	1,052
12.02	158	146	4,231	3,593	3,581	1,091
13	224	224	5,146	4,642	4,576	1,569
14	119	119	2,990	2,797	2,769	846
15	138	138	4,345	3,857	3,833	1,267
16	148	148	4,783	4,617	4,576	1,475
17	348	348	2,559	2,492	2,490	1,358
18.01	40	40	1,286	1,140	1,552	668
18.02	69	69	2,774	3,259	2,322	1,733
19.01	316	311	1,111	1,412	1,402	868
19.02	55	55	3,368	5,413	5,375	3,064
20.01	73	73	2,186	2,560	2,540	1,445
20.02	65	65	2,399	3,600	3,570	2,074
21	279	279	3,347	3,619	4,072	1,558
22	127	127	3,796	6,782	7,516	3,148
23	90	90	4,195	5,073	5,349	2,410
24.01	40	39	3,060	2,912	3,010	1,293
24.02	63	63	2,818	3,042	3,256	1,395
25	104	101	4,242	4,016	3,976	1,885

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1983, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	Jan. 1, 1983 3/	
Honolulu District, con.						
26	167	167	5,163	4,819	4,834	2,057
27.01	366	364	3,675	5,291	5,265	693
27.02	253	253	5,039	5,344	5,279	2,111
28	582	327	4,316	3,679	4,293	1,202
29	280	172	1,591	1,583	1,573	448
30	380	351	4,966	4,491	4,513	1,611
31.01	1,302	433	4,403	3,923	3,910	1,150
31.02	989	322	4,030	3,716	3,697	1,106
32	1,425	352	1,218	1,132	1,139	351
33	148	141	1,145	1,069	1,062	310
34.03	85	84	4,267	5,074	5,211	2,564
34.04 (34.01 pt.) ..	65	64	3,114	4,511	4,590	2,203
34.05 (34.01 pt.) ..	42	42	2,771	3,014	3,018	1,689
34.06 (34.02 pt.) ..	60	60	4,010	5,238	5,274	2,553
34.07 (34.02 pt.) ..	29	29	751	1,033	921	618
35	181	181	4,308	4,399	4,621	2,198
36.01	86	86	2,916	4,326	4,538	2,590
36.02	90	90	2,654	2,661	2,631	1,246
37	450	450	1,349	2,477	2,388	1,401
38	287	287	523	387	297	155
38.99 4/	...	...	314	-	(NA)	-
39	291	291	263	115	113	73
39.99 4/	...	...	134	108	(NA)	-
40	70	70	100	820	815	498
41	165	165	4,097	4,320	4,225	2,240
42	63	63	1,162	2,637	2,621	1,524
43	323	275	5,628	5,339	5,640	2,163
44	867	243	6,142	5,274	5,227	1,486
45	1,955	437	4,780	5,042	5,528	1,800
46	1,751	458	4,377	3,928	3,910	1,187
47	343	342	5,500	4,893	4,872	1,495
48	831	510	6,608	6,146	6,098	1,720
49	99	98	3,292	3,165	3,137	982
50	130	130	3,973	4,075	4,389	1,368
51	46	46	-	1,611	2,432	759
52	41	41	1,405	858	879	248
53	84	84	482	4,529	4,501	1,506
54	22	22	1,862	1,718	1,707	409
55	53	53	1,975	2,106	2,086	636

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1983, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			House-holds, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	Jan. 1, 1983 3/	
Honolulu District, con.						
56	227	226	5,768	5,794	6,371	1,550
57	1,123	1,119	2,615	1,556	1,346	752
57.99 4/	...	...	134	592	(NA)	-
58	123	123	3,163	3,524	3,480	1,030
59	566	565	4,388	3,854	2,762	1,055
59.99 4/	...	...	61	21	(NA)	-
60	176	171	6,711	5,663	5,545	1,352
61	113	111	3,262	3,381	3,318	773
62.01	130	129	4,295	4,741	4,644	1,165
62.02	24	21	2,523	2,665	2,648	609
63.01	171	167	3,713	3,315	3,306	732
63.02	123	109	3,083	2,945	2,983	549
64.01	46	45	1,400	1,737	1,722	348
64.02	646	147	5,280	5,579	5,548	1,321
65	2,311	311	4,011	4,037	4,131	935
66	1,418	1,418	3,424	2,716	2,682	696
67.01	4,726	1,253	7,502	7,477	7,473	1,851
67.02	105	105	2,317	2,755	2,738	853
68.01	1,273	1,102	2,968	20,689	23,318	6,568
68.02	163	163	4,532	4,890	4,864	1,176
68.03	277	261	-	-	-	-
69	280	280	3,694	3,109	3,090	913
70	704	704	4,899	4,251	4,224	1,294
71	227	227	1,402	2,588	2,689	609
72	3,446	3,028	3,864	1,364	1,355	155
114	1,722	1,722	31	31	29	-
Rest of county	324,843	189,492	305,657	397,517	414,039	103,075
73	1,661	1,597	7,530	6,393	6,185	1,732
73.99 4/	...	...	3,034	-	(NA)	-
74	1,313	1,305	4,016	3,138	3,118	713
74.99	...	...	5,070	7,593	(NA)	-
75.01	563	537	4,946	7,467	7,420	2,005
75.02	5,070	1,013	1,496	444	441	16
75.03	559	458	4,982	4,865	4,872	1,306
76	212	212	2,934	1,556	1,546	413
77.01	309	304	4,880	4,645	4,623	1,210
77.02	1,420	776	4,752	4,838	4,858	1,421
78.01 (78 pt. and 79)	6,703	2,068	5,559	12,813	14,195	3,527
78.02 (78 pt.)	3,219	757	895	11,367	13,738	4,051

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1983, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	Jan. 1, 1983 3/	
Rest of county, con.						
80.01	225	224	1,268	1,498	1,487	477
80.02	263	249	3,347	2,987	2,968	826
80.03	360	360	2,811	3,377	3,807	895
80.05	3,100	443	7,846	7,465	7,442	1,839
80.06 (80.04 pt.) ..	436	401	4,349	5,906	5,869	1,427
80.07 (80.04 pt.) ..	372	365	4,708	6,473	6,436	1,591
81	1,141	1,057	3,167	2,580	2,564	607
81.99 4/	...	...	368	-	(NA)	-
82	1,858	1,855	-	-	-	-
83	3,182	3,181	4,759	12,437	12,364	2,861
84	4,194	4,194	7,801	7,643	7,581	2,026
85	3,588	3,588	3,187	2,942	2,924	772
86.01	21,413	14,594	4,226	8,559	9,365	2,337
86.02	9,832	9,826	4,114	4,653	4,624	1,143
86.99 4/	...	...	-	21	(NA)	-
87.01	342	334	5,958	7,284	7,247	1,518
87.02	262	253	4,509	3,854	3,841	911
87.03	421	416	2,238	3,468	3,446	1,116
88	688	663	3,429	4,484	5,824	992
89.01	330	324	7,328	7,861	7,904	1,984
89.02	17,739	12,433	4,420	25,874	28,497	7,764
89.03	14,467	6,515	2,369	6,566	8,438	1,626
90	6,609	6,609	2,783	2,413	2,398	672
91	8,224	3,169	3,410	3,339	3,725	798
92	715	645	6,637	7,420	7,433	2,195
93	298	246	4,875	4,451	4,536	1,429
94	425	278	6,048	5,040	4,994	1,743
95.01	1,862	1,396	3,762	3,587	3,565	887
95.02	321	321	4,901	5,326	5,293	1,466
95.03	443	443	2,566	6,076	6,038	1
95.04	207	207	1,495	955	939	249
95.05	6,212	6,212	858	2,955	2,937	831
96.01	10,010	7,833	4,024	5,159	5,224	1,111
96.03 (96.02 pt.) ..	1,730	1,694	5,100	5,711	5,842	1,439
96.04 (96.02 pt.) ..	5,034	4,913	4,530	4,165	4,143	975
97	7,603	4,793	6,020	10,524	10,575	2,697
98	13,753	4,405	4,403	5,928	6,099	1,742
99.01	22,302	13,543	4,529	5,350	5,494	1,613
99.02	998	980	2,817	2,620	3,535	753
100	45,977	18,259	1,825	1,879	1,864	478
101	19,229	10,222	3,497	4,491	5,281	1,496

Continued on next page.

Table 12.-- RESIDENT POPULATION, 1970 TO 1983, AND AREA AND HOUSEHOLDS, 1980, FOR THE CITY AND COUNTY OF HONOLULU, BY CENSUS TRACTS -- Con.

Census tract (1980 definitions) 1/	Land area (acres)		Resident population			Households, 1980
	Total	Net 2/	Apr. 1, 1970	Apr. 1, 1980	Jan. 1, 1983 3/	
Rest of county, con.						
102.01	16,219	4,112	3,255	3,952	4,213	1,166
102.02	8,289	3,499	3,810	5,752	6,351	1,080
103.02	2,529	1,285	3,338	3,232	3,216	817
103.03 (103.01 pt.) .	10,356	3,936	3,413	3,593	3,668	1,013
103.04 (103.01 pt. and 104)	4,575	2,439	4,776	9,784	10,402	2,737
105.01	1,028	895	5,501	8,712	9,325	2,501
105.03 (105.02 pt.) .	145	137	2,033	1,804	1,789	510
105.04 (105.02 pt.) .	308	302	4,956	4,794	4,761	1,236
106.01	283	247	3,227	3,019	3,108	835
106.02	491	482	5,105	4,994	5,079	1,374
107.01	749	495	2,586	3,680	3,710	1,128
107.02	1,021	566	3,500	3,723	4,321	907
108	3,027	2,752	7,860	11,578	11,506	1,854
108.99 4/	...	...	-	37	(NA)	-
109.01	826	426	3,374	3,161	3,141	924
109.03 (109.02 pt.) .	222	221	4,500	4,158	4,168	1,263
109.04 (109.02 pt.) .	232	232	3,874	3,506	3,485	999
109.05 (109.02 pt.) .	136	136	2,874	2,536	2,500	794
110	6,809	2,941	3,957	4,218	4,247	1,115
111.01	1,112	1,012	6,352	7,966	8,794	2,384
111.03 (111.02 pt.) .	807	659	2,145	3,872	3,917	1,017
111.04 (111.02 pt.) .	484	360	4,858	5,370	5,336	1,462
112.01	575	560	5,377	4,841	4,872	1,498
112.02	327	203	1,832	1,663	1,666	643
113	7,100	5,125	6,777	9,132	9,274	2,137

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ Total land area less forest reserve and undevelopable open space.

3/ Provisional estimates.

4/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Kewalo Basin, adjacent to tract 38, are assigned to tract 38.99.

Source: U.S. Bureau of the Census, 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), and Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981); Hawaii State Census Statistical Areas Committee, Population and Housing Unit Estimates for Oahu Census Tracts, 1980-1983 (Report CTC-57, July 16, 1984); City and County of Honolulu, Department of General Planning, unpublished estimates of census tract areas. The 1970 population of tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Total, 3 counties .	3,730,496	139,385	202,126	63,838
Hawaii County	2,581,888	63,468	92,053	29,237
201	74,828	5,503	5,261	1,558
202	154,950	2,059	1,748	502
203	908	3,435	4,292	1,744
204	710	3,531	4,003	1,342
205	1,672	4,604	5,672	1,826
205.99 2/	...	83	25	-
206	12,808	2,989	3,702	1,132
207	2,022	5,231	7,690	2,285
208	10,894	4,865	7,017	2,047
209	7,200	1,615	2,868	815
210	147,610	3,802	7,055	2,381
211	129,318	1,352	4,696	1,450
212	636,742	3,398	3,699	1,108
213	233,112	1,563	3,560	1,107
214	18,489	2,441	2,354	746
215	273,559	2,589	7,610	2,525
216	4,840	2,243	6,138	2,077
217	205,937	2,310	4,607	1,483
218	85,189	3,326	3,249	1,022
219	74,636	2,829	3,287	1,042
220	262,985	1,819	1,841	535
221	243,479	1,881	1,679	510
Maui and Kalawao Counties	751,936	46,156	70,991	22,581
Maui and Kahoolawe	495,104	38,691	62,823	20,162
301	148,941	969	1,423	435
302	38,548	2,067	3,567	1,096
303.01 (303 pt.)	92,037	2,024	3,850	1,317
303.02 (303 pt.)	45,442	100	1,227	474
304.01 (304 pt.)	10,430	2,494	4,366	1,341
304.02 (304 pt.)	10,892	1,629	4,285	1,254
305	4,931	1,665	1,710	553
306	12,743	781	220	92
307	22,348	1,636	6,020	2,103
307.99 2/	...	-	15	-
308	39,252	1,299	1,584	461
309	435	4,537	6,542	2,041
310	782	4,547	4,132	1,489

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Table 13.-- RESIDENT POPULATION, 1970 AND 1980, AND AREA AND HOUSEHOLDS, 1980, FOR HAWAII, MAUI, AND KAUAI COUNTIES, BY ISLANDS AND CENSUS TRACTS -- Con.

County, island and census tract 1/	Land area (acres)	Resident population		Households, 1980
		1970	1980	
Maui and Kalawao, con.				
Maui and Kahoolawe, con.				
311	3,290	5,505	10,424	2,967
312	808	2,782	2,602	893
313	2,689	1,132	572	174
314	28,704	4,171	6,654	2,115
315	32,832	1,353	3,630	1,357
Lanai	89,856	2,204	2,119	650
316	89,856	2,204	2,119	650
Molokai	166,976	5,261	6,049	1,769
317	83,328	2,574	3,574	1,044
318	75,136	2,515	2,331	654
319 (Kalawao County)	8,512	172	144	71
Kauai County	396,672	29,761	39,082	12,020
Kauai	351,616	29,524	38,856	11,979
401	80,166	1,182	2,668	902
402	42,294	3,599	6,030	1,829
403	2,179	3,794	4,467	1,425
404	50,368	3,642	4,590	1,181
405	3,909	3,124	4,000	1,389
406	15,123	3,141	3,879	1,240
407	23,518	3,660	4,855	1,523
407.99 2/	...	50	-	-
408	77,347	3,173	3,111	947
409	56,712	4,159	5,256	1,543
Niihau, Lehua and Kaula	45,056	237	226	41
410	45,056	237	226	41

1/ Most tract boundaries either remained unchanged between 1970 and 1980 or underwent only minor changes. In cases where the 1970 tracts were split or merged for 1980, however, the 1980 tract designation is followed in parentheses by the 1970 designations.

2/ The ".99" census tracts consist of vessels anchored off the indicated tract; for example, persons living aboard ships in Maalaea Bay, adjacent to tract 307, are assigned to tract 307.99.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Summary Tape File 1A, Hawaii (1981), 1970 Census of Population and Housing, Census Tracts, Honolulu SMSA, PHC(1)-88 (1972), Areas of Hawaii: 1960, GE-20, No. 13 (October 1967), p. 5, and revised acreage data for counties and islands supplied May 5, 1983. The 1970 population of census tracts split between 1970 and 1980 was approximated from 1970 data for blocks and enumeration districts.

Table 14.-- CENTERS OF POPULATION, FOR THE STATE, 1960 TO 1980, AND COUNTIES, 1970 AND 1980

["Center of population" is that point at which an imaginary flat, weightless, and rigid map of an area would balance if weights of identical value were placed on it so that each weight represented the location of one resident on the date of the census]

Geographic area	North latitude	West longitude	Approximate location
State:			
1960	21°12'50"	157°37'03"	7 mi. SE of Makapuu Point
1970	21°13'38"	157°39'20"	3.5 mi. SE of Blow Hole
1980	21.2009°	157.6129°	7 mi. SE of Koko Head
Geographic center 1/	20°15'	156°20'	24 mi. S of Kanahena Pt.
Hawaii County:			
1970	19°43'13"	155°19'22"	15 mi. W of Hilo
1980	19.7015°	155.3667°	17 mi. W of Hilo
Maui County:			
1970 2/	20°53'59"	156°33'06"	1 mi. NE of Iao Needle
1980	20.8809°	156.5184°	1 mi. SW of Wailuku PO
Kalawao County:			
1970 2/	...	...	...
1980	21.1930°	156.9766°	Kalaupapa
Honolulu County:			
1970	21°21'55"	157°53'18"	Tripler Hospital
1980	21.3704°	157.8946°	Moanalua Golf Course
Kauai County:			
1970	22°01'34"	159°28'19"	3.5 mi. SE of Kawaikini
1980	22.0065°	159.4659°	3.5 mi. N of Knudsen Gap

1/ Based on land area rather than population.

2/ Kalawao included with Maui in 1970.

Source: U.S. Bureau of the Census, Centers of Population for States and Counties, 1950, 1960, and 1970 (December 1974), pp. 3, 66, and Hawaii map, and 1980 measurements provided May 8, 1984; U.S. Department of Commerce, News Release NOS 73-80 (October 10, 1973). Cited in Hawaii State Census Statistical Areas Committee, Centers of Population, 1960-1980 (Report CTC-59, August 17, 1984).

Table 15.-- RESIDENT POPULATION OF URBANIZED AREAS, OTHER URBAN PLACES, AND RURAL TERRITORY: 1960 TO 1980

Kind of area	1980	1970	1960
State total	964,691	769,913	632,772
Honolulu Urbanized Area 1/	582,463	443,749	351,336
Honolulu	365,048	324,871	294,194
Rest of urbanized area	217,415	118,878	57,142
Kailua-Kaneohe Urbanized Area 2/	105,712	...	...
Kailua 3/	35,812	33,783	24,402
Kaneohe 3/	29,919	26,998	15,291
Rest of urbanized area	39,981	...	...
Other urban places	146,417	138,692	92,932
Rural territory	130,099	126,691	148,811

1/ The Honolulu Urbanized Area consists of Honolulu District (the area southwest of the crest of the Koolau Mountains, between Red Hill and Makapuu Point) and the adjacent urbanized territory circling Pearl Harbor, as far west as Waipahu in 1960, Waipahu and Ewa Beach in 1970 and 1980, and also out to Whitmore Village and Schofield Barracks in 1980.

2/ The Kailua-Kaneohe Urbanized Area was initially defined as of 1980. It includes the urban territory on Windward Oahu, from Kahaluu through Waimanalo Beach.

3/ The 1970 totals for Kailua and Kaneohe have been adjusted to the 1980 boundaries. The 1960 totals for these places have been adjusted to the original 1970 boundaries.

Source: U.S. Census of Population: 1960, PC(1)-13A, tables 1, 8, and 10, and unpublished data for enumeration districts; U.S. Census of Population: 1970, PC(1)-A13, tables 1, 6, and 11, and correction note, and unpublished data for enumeration districts; U.S. Census of Population: 1980, PC80-1-A13, tables 7 and 13. The 1970 data recapitulated in the 1980 census bulletin have been corrected by DPED.

Table 16.-- POPULATION AND LAND AREA, URBAN AND RURAL, BY COUNTIES: 1960 TO 1980

[Urban places are those with populations of 2,500 or more. Places with populations less than 2,500 and open country are classified as rural]

County and type of area	Land area (square miles)			Resident population		
	1960	1970	1980	1960	1970	1980
State total	6,425.4	6,425.4	6,425	632,772	769,913	964,691
Urban	213.0	226.8	278	485,627	643,222	834,592
Rural	6,212.4	6,198.6	6,147	147,145	126,691	130,099
City and Co. of Honolulu	595.7	595.7	596	500,409	630,528	762,565
Honolulu Urb. Area	99.8	115.0	135	351,336	443,749	582,463
Kailua-Kaneohe Urb. Area ..	(1/)	(1/)	34	(1/)	(1/)	105,712
Other urban	32.9	37.3	15	86,270	146,225	47,116
Rural	463.0	443.4	412	62,803	40,554	27,274
Hawaii County	4,037.0	4,037.0	4,034	61,332	63,468	92,053
Urban 2/	56.1	56.1	61	23,005	26,353	40,020
Rural	3,980.9	3,980.9	3,973	38,327	37,115	52,033
Kauai County	619.1	619.1	620	28,176	29,761	39,082
Urban	6.0	10.2	12	7,347	6,918	17,454
Rural	613.1	608.9	608	20,829	22,843	21,628
Maui County 3/	1,173.6	1,173.6	1,175	42,855	46,156	70,991
Urban	18.2	8.2	21	17,669	19,977	41,827
Rural	1,155.4	1,165.4	1,154	25,186	26,179	29,164

1/ Included with "other urban."

2/ Area in 1960 based on 1970 urban boundaries of Hilo. Published reports of the 1960 census were based on the "legal" boundaries described in Sec. 70-1, HRS; thus defined, Hilo had a land area of 298.9 square miles, most of it in forest reserve and wasteland.

3/ Including Kalawao County.

Source: 1960 and 1970 from the Hawaii State Department of Planning and Economic Development, Land Use and Ownership Trends in Hawaii (Statistical Report 98, December 28, 1973), p. 19; 1980 from U.S. Bureau of the Census, 1980 Census of Population, PC80-1-A1, tables 25 and 34, and PC80-1-A13, table 3, and the Hawaii State Department of Planning and Economic Development, Statistical Memorandum 83-6 (May 18, 1983).

Table 17.-- POPULATION PROJECTIONS, RESIDENT AND DE FACTO, BY COUNTIES: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for State planning purposes]

Type of population and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui 1/
Resident population: 2/						
1980 (est.)	969.0	765.0	204.0	92.8	39.3	71.9
1985	1,057.8	815.3	242.6	109.7	46.0	86.9
1990	1,138.4	859.3	279.1	122.6	55.1	101.4
1995	1,211.5	896.9	314.6	134.4	63.9	116.3
2000	1,267.8	925.7	342.2	143.2	69.1	129.9
2005	1,310.0	954.5	355.5	147.6	72.2	135.7
De facto population: 3/						
1980 (est.)	1,055.9	823.7	232.2	99.3	46.3	86.7
1985	1,166.4	883.4	283.0	118.2	54.2	110.6
1990	1,277.5	941.1	336.4	135.1	66.9	134.4
1995	1,373.0	985.2	387.8	150.6	79.3	157.9
2000	1,447.2	1,018.2	429.0	163.1	88.2	177.7
2005	1,501.0	1,052.1	448.9	168.6	92.2	188.1

1/ Includes Kalawao.

2/ For definition, see table 4, footnote 1.

3/ For definition, see table 4, footnote 2.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 11.

Table 18.-- POPULATION BY AGE AND SEX: 1980

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
All ages	964,691	494,683	470,008	762,565	202,126
Under 5 years	77,848	40,004	37,844	60,154	17,694
Under 1 year	17,229	8,856	8,373	13,384	3,845
1 year	15,650	8,173	7,477	11,978	3,672
2 years	15,270	7,871	7,399	11,747	3,523
3 years	15,079	7,675	7,404	11,731	3,348
4 years	14,620	7,429	7,191	11,314	3,306
5 to 9 years	73,057	37,555	35,502	56,771	16,286
5 years	14,237	7,378	6,859	10,984	3,253
6 years	14,056	7,068	6,988	10,996	3,060
7 years	14,329	7,370	6,959	11,118	3,211
8 years	14,650	7,579	7,071	11,421	3,229
9 years	15,785	8,160	7,625	12,252	3,533
10 to 14 years	74,870	38,459	36,411	58,528	16,342
10 years	15,874	8,236	7,638	12,450	3,424
11 years	14,513	7,436	7,077	11,374	3,139
12 years	14,334	7,382	6,952	11,169	3,165
13 years	14,718	7,573	7,145	11,535	3,183
14 years	15,431	7,832	7,599	12,000	3,431
15 to 19 years	86,446	45,673	40,773	69,715	16,731
15 years	16,251	8,368	7,883	12,754	3,497
16 years	16,606	8,524	8,082	13,080	3,526
17 years	16,951	8,606	8,345	13,276	3,675
18 years	17,033	9,246	7,787	14,004	3,029
19 years	19,605	10,929	8,676	16,601	3,004
20 to 24 years	105,682	59,070	46,612	89,371	16,311
20 years	21,909	12,870	9,039	18,905	3,004
21 years	21,796	12,814	8,982	18,816	2,980
25 to 29 years	95,287	48,864	46,423	75,965	19,322
30 to 34 years	84,314	42,990	41,324	67,491	16,823
35 to 39 years	63,948	32,684	31,264	51,285	12,663
40 to 44 years	47,468	23,765	23,703	38,045	9,423
45 to 49 years	45,240	21,589	23,651	36,161	9,079
50 to 54 years	49,204	23,298	25,906	38,614	10,590
55 to 59 years	47,383	23,502	23,881	36,645	10,738
60 to 64 years	37,794	18,871	18,923	28,452	9,342
65 to 69 years	29,153	15,384	13,769	21,457	7,696
70 to 74 years	20,222	10,991	9,231	14,475	5,747
75 to 79 years	13,673	6,796	6,877	9,901	3,772
80 to 84 years	7,541	3,177	4,364	5,527	2,014
85 years and over ..	5,561	2,011	3,550	4,008	1,553

Continued on next page.

Table 18.-- POPULATION BY AGE AND SEX: 1980 -- Con.

Age	All persons	Sex		Island	
		Male	Female	Oahu	Other
18 years and over ..	689,108	353,167	335,941	548,002	141,106
62 years and over ..	97,582	48,960	48,622	71,399	26,183
65 years and over ..	76,150	38,359	37,791	55,368	20,782
Median	28.3	27.6	29.1	28.0	29.6

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 19.

Table 19.-- RURAL FARM POPULATION: 1960 TO 1980

Year	Persons	Percent of state total
1960 1/	10,936	1.7
1970	8,037	1.0
1980	4,523	0.5

1/ Earliest year available.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, PC(1)-13C (1962), table 37; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 48; and 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 56.

Table 20.-- ESTIMATED POPULATION, BY AGE: ANNUALLY, 1980 TO 1983

[In thousands. Resident population, including armed forces stationed in Hawaii]

Age	April 1, 1980 (census)	July 1, 1981	July 1, 1982	July 1, 1983 (prov.)
All ages	965	981	997	1,023
Under 5 years	78	81	84	89
5 to 14 years	148	147	147	150
15 to 24 years	192	190	187	188
25 to 34 years	180	185	186	190
35 to 44 years	111	117	125	133
45 to 54 years	94	92	91	92
55 to 64 years	85	88	91	93
65 years and over	76	81	85	89
5 to 17 years	198	195	194	195
18 to 24 years	142	141	140	142
25 to 44 years	291	302	311	324
45 to 64 years	180	180	182	185
14 years and over	754	767	779	800
16 years and over	723	737	750	770
18 years and over	689	704	718	739
21 years and over	631	646	661	681

Source: U.S. Bureau of the Census, "Estimates of the Population of States, by Age: July 1, 1981, to 1983," Current Population Reports, Population Estimates and Projections, Series P-25, No. 951, May 1984.

Table 21.-- AGE, SEX AND MILITARY STATUS: 1983

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 15,250 persons]

Age in years	Total	Armed forces		Military dependents		Other civilians	
		Male	Female	Male	Female	Male	Female
All ages ..	985,722	37,336	4,166	23,743	49,657	433,001	437,819
Under 5	82,899	-	-	9,318	8,540	33,285	31,757
5 to 9	77,708	-	-	7,428	6,672	32,494	31,114
10 to 14	79,460	-	-	3,954	3,741	36,844	34,920
15 to 19	85,402	876	98	1,455	2,996	41,360	38,617
20 to 24	91,795	9,006	2,250	843	6,393	34,724	38,579
25 to 29	97,678	10,560	1,358	339	8,425	38,059	38,937
30 to 34	87,764	9,534	289	-	6,766	34,637	36,538
35 to 39	63,849	3,760	85	101	2,805	29,377	27,721
40 to 44	52,455	2,170	85	170	1,828	22,787	25,414
45 to 49	49,296	1,052	-	26	683	22,975	24,561
50 to 54	49,237	378	-	-	326	21,976	26,558
55 to 59	49,376	-	-	41	261	24,286	24,788
60 to 64	39,272	-	-	-	129	19,422	19,722
65 to 69	31,804	-	-	-	-	16,408	15,396
70 to 74	20,337	-	-	69	-	11,357	8,911
75 and over	27,388	-	-	-	94	13,009	14,285
Under 18 1/	290,724	-	-	21,573	20,751	127,439	120,961
18 to 64 1/	615,469	37,336	4,166	2,101	28,812	264,788	278,266
65 and over	79,529	-	-	69	94	40,774	38,592
Median (years) .	28.9	29.2	24.4	6.7	22.3	30.0	30.7

1/ Interpolated from data by 5-year age groups.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 22.-- RESIDENT POPULATION BY AGE AND SEX: 1980 TO 2005

[Thousands. As of July 1. Series M-F projections, recommended by DPED for Statewide planning purposes]

Age in years	1980 (est.)			1985			1990		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total ..	968.0	496.6	471.4	1,057.8	539.9	517.9	1,138.4	578.5	560.0
0 to 4	77.2	39.7	37.6	85.1	43.6	41.5	89.4	45.7	43.6
5 to 9	73.6	38.0	35.6	78.1	40.3	37.7	83.4	43.0	40.4
10 to 14	75.0	38.8	36.2	74.9	38.5	36.4	78.1	40.1	38.0
15 to 19	86.3	45.9	40.5	83.1	44.7	38.5	82.9	44.6	38.3
20 to 24	106.3	59.4	46.8	110.4	62.6	47.7	109.5	62.7	46.8
25 to 29	95.8	48.8	47.0	100.0	51.2	48.8	101.4	52.5	48.9
30 to 34	85.1	43.6	41.5	93.8	47.4	46.3	98.2	49.8	48.4
35 to 39	65.5	33.4	32.1	79.9	40.5	39.4	88.8	44.8	43.9
40 to 44	46.9	23.5	23.4	62.9	31.4	31.4	75.6	37.7	37.9
45 to 49	43.6	20.8	22.8	50.1	24.4	25.7	61.8	30.2	31.6
50 to 54	49.8	23.2	26.6	47.3	22.4	24.9	52.8	25.4	27.4
55 to 59	48.3	24.2	24.1	47.1	22.4	24.7	47.7	22.6	25.1
60 to 64	38.3	19.0	19.3	43.7	21.1	22.6	44.8	21.1	23.7
65 to 69	28.8	15.3	13.5	36.0	17.9	18.2	40.0	19.1	20.9
70 to 74	20.6	11.0	9.6	26.7	13.5	13.2	32.2	15.5	16.7
75 to 79	13.7	6.6	7.1	18.1	9.0	9.1	23.1	11.1	12.1
80 to 84	7.6	3.3	4.3	11.2	5.2	6.0	14.8	6.9	8.0
85 and over .	5.6	2.1	3.5	9.5	3.8	5.8	14.0	5.7	8.3
Median age ..	28.4	27.7	29.2	29.9	28.9	30.9	31.3	30.1	32.5

Continued on the next page.

Table 22.-- RESIDENT POPULATION BY AGE AND SEX: 1980 TO 2005 -- Con.

Age in years	1995			2000			2005		
	Total	Male	Female	Total	Male	Female	Total	Male	Female
Total .	1,211.5	613.2	598.3	1,267.8	639.9	627.9	1,310.0	659.8	650.1
0 to 4	91.3	46.7	44.6	91.8	47.0	44.8	91.3	46.8	44.5
5 to 9	87.0	44.8	42.2	88.6	45.6	43.0	88.8	45.7	43.1
10 to 14 ...	82.1	42.1	40.0	84.7	43.4	41.2	85.7	43.9	41.7
15 to 19 ...	85.2	45.8	39.4	87.5	46.9	40.6	89.0	47.7	41.3
20 to 24 ...	109.5	62.8	46.6	109.4	62.9	46.5	109.6	63.1	46.6
25 to 29 ...	101.2	52.8	48.4	99.9	52.3	47.6	98.8	51.7	47.0
30 to 34 ...	99.6	51.0	48.7	98.6	50.7	47.9	96.8	50.0	46.8
35 to 39 ...	93.5	47.4	46.1	94.8	48.3	46.4	93.8	48.1	45.7
40 to 44 ...	84.1	41.9	42.2	88.4	44.3	44.1	89.6	45.2	44.4
45 to 49 ...	72.7	35.6	37.1	80.3	39.5	40.8	84.3	41.7	42.6
50 to 54 ...	62.2	30.1	32.1	71.1	34.6	36.5	77.5	37.9	39.7
55 to 59 ...	53.2	25.4	27.8	61.0	29.3	31.7	68.6	33.1	35.5
60 to 64 ...	47.2	22.2	25.0	52.3	24.7	27.6	59.0	28.0	31.0
65 to 69 ...	42.1	19.7	22.5	45.2	20.9	24.2	50.0	23.2	26.8
70 to 74 ...	35.7	16.5	19.2	38.3	17.4	20.9	41.6	18.7	22.8
75 to 79 ...	27.4	12.5	14.9	30.4	13.4	17.0	33.1	14.4	18.8
80 to 84 ...	18.5	8.2	10.3	21.6	9.2	12.4	24.0	9.9	14.1
85 and over	19.0	7.7	11.3	24.0	9.4	14.6	28.6	10.8	17.8
Median age .	32.5	31.1	33.9	33.7	32.2	35.3	34.7	33.1	36.5

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), pp. 12-13.

Table 23.-- STATISTICAL SUMMARY FOR PERSONS 100 YEARS OF AGE AND OLDER, BY SEX: 1975-1983

Subject	Both sexes	Male	Female
Population 100 and over, 1980	113	51	62
100 to 104 years	75	33	42
105 to 109 years	23	11	12
110 years and over	15	7	8
Centenarian Social Security beneficiaries in force, Dec. 1983	70	30	40
Age of oldest (years)	110	110	109
Centenarian deaths, 1975-1983	140	42	98
1975-1979	61	21	40
1980	13	3	10
1981	20	9	11
1982	23	5	18
1983	23	4	19
Oldest (years)	113	109	113
Oldest recorded age at death, 1853-1983 (years)	124±	120±	124±
Year of death	1898	1898	1898

Source: Hawaii State Departments of Health and Planning and Economic Development, Extreme Old Age in Hawaii (Population Report, No. 14, November 1982); U.S. Department of Health and Human Services, Social Security Administration, Division of OASDI Statistics, data provided June 14, 1984. Hawaii State Department of Health Research and Statistics Office, data provided July 11, 1984.

Table 24.-- ETHNIC STOCK BY MILITARY STATUS: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 15,250 persons]

Ethnic stock 1/	Total		Armed forces	Military dependents	Other civilians
	Number	Percent			
All groups	985,722	100.0	41,502	73,400	870,820
Unmixed	692,325	70.2	37,956	58,985	595,384
Caucasian	241,872	24.5	28,107	42,234	171,532
Japanese	228,341	23.2	572	809	226,960
Chinese	46,793	4.7	411	264	46,118
Filipino	111,607	11.3	1,692	5,057	104,858
Hawaiian	8,148	0.8	129	55	7,964
Korean	13,419	1.4	412	1,155	11,852
Black	16,179	1.6	6,028	7,583	2,568
Puerto Rican	6,524	0.7	389	1,042	5,093
Samoan	9,992	1.0	-	89	9,903
Other unmixed or unknown	9,451	1.0	216	699	8,536
Mixed	293,397	29.8	3,546	14,415	275,436
Part Hawaiian	188,657	19.1	1,227	3,489	183,941
Non Hawaiian	104,740	10.6	2,319	10,926	91,495

1/ Definitions used in this table differ widely from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 25.-- ETHNIC STOCK, BY COUNTIES: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 15,250 persons]

Ethnic stock	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
All groups	985,722	760,834	102,385	43,194	79,310
Unmixed	692,325	550,079	61,741	28,611	51,894
Caucasian	241,872	192,236	21,669	7,495	20,472
Japanese	228,341	176,074	25,130	10,977	16,160
Chinese	46,793	44,722	1,171	208	692
Filipino	111,607	80,209	10,600	9,105	11,693
Hawaiian	8,148	5,440	1,250	184	1,274
Korean	13,419	12,616	332	188	283
Black	16,179	15,752	252	90	85
Puerto Rican	6,524	5,430	833	114	147
Samoan	9,992	9,850	106	-	36
Other unmixed and unknown	9,451	7,750	398	250	1,052
Mixed	293,397	210,755	40,644	14,583	27,416
Part Hawaiian	188,657	128,503	30,496	9,730	19,927
Non Hawaiian	104,740	82,252	10,147	4,852	7,489

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 26.-- ETHNIC SUBGROUPS, BY COUNTIES OR ISLANDS: 1960-1982

Group and subgroup	State total	Oahu	Hawaii County	Maui County	Kauai County
All groups, 1974-75 1/	842,800	678,979	74,700	59,661	29,460
Caucasian	246,090	207,089	16,509	15,333	7,159
Portuguese	28,267	17,653	5,603	2,625	2,386
Other Caucasian 2/	217,822	189,435	10,906	12,708	4,773
Non-Caucasian	596,710	471,890	58,191	44,328	22,301
All groups, 1982 3/	956,118	740,382	96,382	78,961	40,393
Hawaiian	182,870	129,223	25,940	19,271	8,436
50 percent or more 4/	49,026	32,641	7,181	7,272	1,932
Less than 50 percent 4/ ..	133,844	96,582	18,759	11,919	6,504
Non-Hawaiian	773,248	611,159	70,442	59,690	31,957
All groups, 1960 5/	632,772	500,409	61,332	42,855	28,176
Japanese	203,455	148,611	26,832	16,816	11,196
Okinawan (1961) 6/	31,230	28,107	1,000	523	1,600
Naichi 7/	172,225	120,504	25,832	16,293	9,596
Non-Japanese	429,317	351,798	34,500	26,039	16,980

1/ Excludes persons in barracks or institutions, or in Kalawao County or on Niihau. Kauai data as of July-August 1974; other areas as of April 1, 1975.

2/ "Haoles" for Kauai and "Caucasian, not Portuguese" for other areas.

3/ Excludes persons in barracks or institutions, or in Kalawao County or on Niihau.

4/ Blood quantum for Hawaiians based on survey data for October-December 1983.

5/ Total resident population.

6/ A 1980 Statewide estimate is 40,000. The first 26 Okinawan immigrants arrived in 1900.

7/ Naichi are Japanese from the four main islands of Japan proper.

Source: Community Services Administration, 1975 Census Update Survey for Oahu (Sept. 1976), p. 44, Hawaii County (Sept. 1976), p. 34, and Maui County (Feb. 1976), p. 28; Robert N. Anderson et al., Kauai Socioeconomic Profile (University of Hawaii, Center for Nonmetropolitan Planning and Development, May 1975), pp. 36-37; David B. Johnson, The Hawaiian Population by Proportion Hawaiian Ancestry by Age, Sex and County: Preliminary Estimates 1982 (Office of Hawaiian Affairs, March 1984); U.S. Bureau of the Census, Census of Population: 1960, Vol. I, Characteristics of the Population, Part 13, Hawaii (1963), tables 15 and 28; Y. Scott Matsumoto, "Okinawa Migrants to Hawaii," Hawaiian Journal of History, Vol. 16 (1982), pp. 125-133.

Table 27.-- POPULATION BY RACE AND SPANISH ORIGIN, BY COUNTIES: 1980

Race and Spanish origin	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
Total persons	964,691	762,565	92,053	144	39,082	70,847
Race: 1/						
White	331,925	262,604	32,198	21	11,565	25,537
Black	17,687	17,203	278	-	59	147
American Indian	2,833	2,348	316	-	63	106
Eskimo	74	69	-	-	-	5
Aleut	69	28	17	-	-	24
Japanese	239,734	190,218	24,446	23	9,606	15,441
Chinese	55,916	52,301	1,600	9	587	1,419
Filipino	132,075	96,421	12,746	26	9,944	12,938
Korean	17,453	16,566	522	1	128	236
Asian Indian	708	637	25	-	-	46
Vietnamese	3,403	3,251	139	-	-	13
Hawaiian	118,251	81,868	17,317	59	6,057	12,950
Guamanian	1,630	1,470	49	-	64	47
Samoan	14,349	13,975	219	3	63	89
Other Asian and Pacific Islander	7,140	6,410	490	2	24	214
Race n.e.c.	21,444	17,196	1,691	-	922	1,635
Spanish origin: 2/						
Spanish origin	71,399	54,619	8,261	1	3,226	5,292
Not of Spanish origin ..	893,292	707,946	83,792	143	35,856	65,555

n.e.c. Not elsewhere classified.

1/ Persons of mixed race classified by self-identification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 27.3 percent of the population in households in 1980 was of mixed race (17.9 percent Part Hawaiian and 9.4 percent non-Hawaiian).

2/ For a cross-tabulation of Spanish origin by race, see the following table.

Source: U.S. Bureau of the Census, Census of Population: 1980, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), tables 58 and 59.

Table 28.-- SPANISH ORIGIN BY RACE: 1980

[Unless otherwise specified, data are based on a 15.7 percent sample]

Race	Total	Spanish origin 1/	Not of Spanish origin
All races	964,691	71,399	893,292
White	331,925	20,857	311,068
Black	17,687	721	16,966
Amer. Indian, Eskimo, and Aleut	2,976	271	2,605
Asian and Pacific Islander	590,659	34,814	555,845
Race not elsewhere classified	21,444	14,636	6,808
Asian and Pacific Islander 2/	601,000	38,580	562,420
Chinese 2/	55,780	1,240	54,540
Filipino 2/	134,960	22,540	112,420
Hawaiian 2/	122,660	11,520	111,140
Japanese 2/	241,580	1,900	239,680
Other Asian and Pacific Islander 2/	46,020	1,380	44,640

1/ Includes 9,126 Mexican, 20,083 Puerto Rican, 457 Cuban, and 41,733 other Spanish.

2/ Based on the 5-percent Public Use Microdata Sample.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13, tables 58 and 59 (June 1983), tables 58 and 59, and Census of Population and Housing, 1980, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 29.-- ASIAN AND PACIFIC ISLANDER POPULATION: 1980

Classification 1/	Population	Classification 1/	Population
Total population ..	964,691	Pacific Islander population	137,696
		Polynesian	134,687
Asian population	452,951	Hawaiian 2/	118,251
Asian Indian	708	Samoan	14,349
Bangladeshi	-	Tahitian	269
Burmese	16	Tongan	1,482
Cambodian (Kampuchean)	58	All other	336
SriLankan (Ceylonese)	26	Micronesian	2,648
Chinese	55,916	Guamanian	1,630
Filipino	132,075		
Hmong	52	Northern Mariana Islander	56
Indonesian	153	Marshallese	78
Japanese	239,734	Palauan	305
Korean	17,453	All other	579
Laotian	1,369	Melanesian	355
Malayan	59	Fijian	260
Okinawan	935	All other	95
Pakistani	59		
Thai	765	Pacific Islander not specified	6
Vietnamese	3,403		
Asian not specified ..	130	Remainder of population ...	374,044
All other Asian	40		

1/ Since the 1980 census obtained information on race through self-identification, the data represent self-classification by people according to the race with which they identify. For persons who could not provide a single response to the race question, the race of the person's mother was used; if a single response could not be provided for the person's mother, the first race reported by the person was used. This classification system differs greatly from that used by the Hawaii Health Surveillance Program, in which persons of mixed race (27.3 percent of the non-institutional, non-barracks population in 1980) are shown separately.

2/ For the United States as a whole, the 1980 census reported 172,346 Hawaiians: 118,251 in Hawaii, 24,245 in California, and 29,850 in other Mainland States. Results of the 1980 Hawaii Health Surveillance Program indicated a total of 9,366 Hawaiians and 166,087 Part Hawaiians in Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, Supplementary Report, Asian and Pacific Islander Population by State: 1980, PC80-S1-12 (December 1983).

Table 30.-- ANCESTRY: 1980

Ancestry group 1/	Persons who reported --		
	At least one specific ancestry group	A single ancestry group	A multiple ancestry group
Total 2/	901,210	632,972	268,238
Dutch	10,554	1,886	8,668
English	96,223	33,262	62,961
French	26,429	3,926	22,503
German	82,982	22,181	60,801
Irish	68,041	12,845	55,196
Italian	13,994	5,331	8,663
Portuguese	57,541	26,447	31,094
Scottish	24,300	3,387	20,913
Afro-American	15,612	13,200	2,412
Chinese	91,305	45,062	46,243
Filipino	139,621	105,973	33,648
Japanese	246,000	214,964	31,036
Korean	20,854	15,091	5,763
Puerto Rican	14,997	7,082	7,915
Spanish/Hispanic	17,208	4,001	13,207
Hawaiian 3/	136,341	61,226	75,115
American Indian	11,728	2,210	9,518

1/ Shown separately for all groups over 10,000.

2/ Numbers by ancestry group do not add to total because persons reporting a multiple ancestry are included in more than one group.

3/ The U.S. total for persons with Hawaiian ancestry was 202,054, including 84,104 reporting a single ancestry group and 117,950 reporting a multiple ancestry group. Out of 65,708 Mainland residents reporting Hawaiian ancestry, 32,145 were living in California.

Source: U.S. Bureau of the Census, *1980 Census of Population, Ancestry of the Population by State: 1980*, Supplementary Report PC80-S1-10 (April 1983).

Table 31.-- NATIVITY, PLACE OF BIRTH, AND CITIZENSHIP: 1980 AND 1970

Nativity, place of birth, and citizenship	State totals		Islands: 1980	
	1980	1970	Oahu	Other islands
NATIVITY AND PLACE OF BIRTH				
Total persons	964,691	768,559	762,565	202,126
Native 1/	827,675	692,964	649,354	178,321
Born in Hawaii	557,990	455,060	420,120	137,870
Born in different State	248,752	178,531	209,901	38,851
Born abroad, at sea, etc. 2/	20,933	17,286	19,333	1,600
Foreign born	137,016	75,595	113,211	23,805
Europe and U.S.S.R.	9,100	5,595	7,457	1,643
China	6,112	4,663	5,875	237
Japan	22,265	19,685	18,718	3,547
Korea	9,060	2,063	8,774	286
Philippines	58,510	33,175	43,880	14,630
Vietnam	3,606	8,208	3,531	75
All other countries	22,267		19,719	2,548
Country not reported	6,096	2,206	5,257	839
CITIZENSHIP 3/				
Foreign born	137,016	73,578	113,211	23,805
Naturalized citizen	62,287	30,566	51,314	10,973
Not a citizen	74,729	43,012	61,897	12,832

1/ 1970 figure includes persons not reporting place of birth, not shown separately.

2/ Includes persons born in Puerto Rico, American Samoa, or other outlying areas of the United States, and persons born at sea or in a foreign country having at least one American parent.

3/ 1970 data based on a subsample; foreign born total thus differs somewhat from corresponding figure shown elsewhere in this table.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 63, and 118; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), tables 141 and 144.

Table 32.-- YEAR OF IMMIGRATION FOR FOREIGN-BORN PERSONS BY COUNTRY OF BIRTH: 1980

Country of birth	All foreign-born persons	Year of immigration			
		1970 to 1980	1960 to 1969	1950 to 1959	Before 1950
Total	137,016	69,938	28,523	10,469	28,086
Europe and U.S.S.R.	9,100	2,332	2,522	2,040	2,206
Asia	108,183	56,485	21,513	6,694	23,491
China	6,112	2,687	1,570	748	1,107
Hong Kong	2,492	1,838	501	95	58
Japan	22,265	6,311	3,867	3,298	8,789
Korea	9,060	7,549	1,045	194	272
Philippines	58,510	29,695	13,540	2,147	13,128
Vietnam	3,606	3,475	123	8	-
Other Asia	6,138	4,930	867	204	137
North and South America	5,777	2,551	1,683	750	793
Canada	3,268	1,292	885	487	604
Other N. and S. America	2,509	1,259	798	263	189
Africa	493	306	136	35	16
All other countries 1/	7,367	5,319	1,406	321	321
Country not reported	6,096	2,945	1,263	629	1,259

1/ Tonga, Western Samoa, etc.

Source: U.S. Bureau of the Census, *1980 Census of Population, Detailed Population Characteristics, Hawaii*, PC80-1-D13 (October 1983), table 195.

Table 33.-- CITIZENSHIP FOR FOREIGN-BORN PERSONS BY COUNTRY OF BIRTH: 1980

Country of birth	All foreign-born persons	Naturalized citizens	Not a citizen
Total	137,016	62,287	74,729
Europe and U.S.S.R.	9,100	5,682	3,418
Asia	108,183	48,216	59,967
China	6,112	3,792	2,320
Hong Kong	2,492	1,033	1,459
Japan	22,265	10,231	12,034
Korea	9,060	3,550	5,510
Philippines	58,510	27,054	31,456
Vietnam	3,606	673	2,933
Other Asia	6,138	1,883	4,255
North and South America	5,777	2,306	3,471
Canada	3,268	1,112	2,156
Other N. and S. America	2,509	1,194	1,315
Africa	493	144	349
All other countries 1/	7,367	2,582	4,785
Country not reported	6,096	3,357	2,739

1/ Tonga, Western Samoa, etc.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 195.

Table 34.-- PLACE OF BIRTH, RESIDENCE FIVE YEARS EARLIER, AND HAWAIIAN BLOOD: 1960 TO 1980

Subject	1960	1970	1980 1/
PLACE OF BIRTH			
All Hawaii residents	632,772	768,559	964,691
Hawaii	421,168	455,060	557,990
Other States	128,992	178,531	248,752
Other U.S. 2/	4,965	17,286	20,933
U.S., State not reported	8,750	42,087	...
Foreign country	68,900	75,595	137,016
Mainland residents born in Hawaii	115,070	179,735	258,100
RESIDENCE FIVE YEARS EARLIER			
Hawaii residents 5 years and over	551,781	697,840	888,056
Hawaii	432,147	495,726	685,882
Other States	94,768	125,732	149,919
Abroad	19,402	33,518	52,255
Moved, residence not reported	5,464	42,864	...
Mainland residents who lived in Hawaii 5 years earlier	84,740	112,443	173,741
HAWAIIAN BLOOD 3/			
Hawaii residents	...	71,274	122,660
Mainland residents 4/	...	27,562	55,240

1/ Mainland residents born in Hawaii from 5-percent sample; residence five years earlier from 7.8-percent sample; other data from 15.7-percent sample.

2/ U.S. territories or possessions, or abroad of U.S. parents.

3/ Persons classified as "Hawaiian," either by self-identification or race of father (in 1970) or mother (in 1980). Includes some but not all Part Hawaiians. Comparable data not available for 1960.

4/ 1970 figure excludes Alaska.

Source: U.S. Bureau of the Census data cited in Hawaii State Department of Planning and Economic Development, Lifetime and Recent Migration to and from Hawaii (forthcoming).

Table 35.-- PLACE OF BIRTH BY MILITARY STATUS: 1983

[Excludes persons in institutions, military barracks, Kalawao or Niihau.
Based on a sample survey of 15,250 persons]

Place of birth	All groups	Armed forces	Military dependents	Other civilians
Total	985,722	41,502	73,400	870,820
Native born	848,821	37,734	62,273	748,814
Hawaii	609,588	2,433	10,567	596,588
Mainland U.S.	229,621	34,602	50,457	144,562
American Samoa	5,951	-	95	5,856
Other terr. or poss.	3,661	699	1,154	1,808
Foreign born	131,959	3,486	10,734	117,739
China 1/	14,594	-	181	14,414
Indo-China 2/	6,586	-	612	5,974
Japan	22,386	85	1,430	20,872
Korea	10,324	412	1,540	8,372
Philippines	57,816	1,563	3,487	52,765
Other foreign	20,253	1,426	3,484	15,342
Not reported	4,941	281	393	4,267

1/ Includes Taiwan.

2/ Cambodia, Laos, or Vietnam.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 36.-- LENGTH OF RESIDENCE IN HAWAII BY MILITARY STATUS: 1983

[Excludes persons in military barracks, institutions, Kalawao, or Niihau. Based on a sample survey of 15,250 persons]

Length of residence in Hawaii	All groups	Armed forces	Military dependents	Other civilians
All periods	985,722	41,502	73,400	870,820
Less than 1 year	55,608	7,666	18,017	29,926
1 to 4 years	174,578	27,140	44,995	102,442
5 to 9 years	120,081	3,361	6,216	110,504
10 to 19 years	202,788	1,237	2,280	199,271
20 years or more	423,809	1,900	1,563	420,346
Not reported	8,857	198	328	8,331
Median years	16.8	2.9	2.6	19.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 37.--CITIZENSHIP, BY AGE AND LENGTH OF RESIDENCE IN HAWAII: 1983

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 15,250 persons]

Age and length of residence in Hawaii	All categories	U.S. citizens		U.S. nationals 1/	Aliens	Status not reported
		Native born	Naturalized			
Total	985,722	860,482	56,977	1,909	57,541	8,812
Age:						
Under 6 years	100,061	99,156	56	-	557	292
6 to 16 years	173,692	162,136	2,322	304	6,435	2,496
17 to 24 years	143,512	128,671	4,109	170	9,355	1,207
25 to 44 years	301,746	257,514	21,456	834	19,263	2,680
45 to 64 years	187,182	154,098	19,240	509	12,028	1,307
65 years and over ...	79,529	58,907	9,795	93	9,903	831
Median age 2/ (years)	30.0	28.1	45.6	...	37.9	28.1
Years lived in Hawaii:						
Less than 1 year	55,608	49,046	486	186	5,406	484
1 to 4 years	174,578	148,388	4,559	439	19,387	1,804
5 to 9 years	120,081	95,814	10,992	411	11,285	1,579
10 to 19 years	202,788	169,078	20,502	428	11,285	1,496
20 years or more	423,809	392,458	19,887	445	9,742	1,276
Not reported	8,857	5,699	551	-	436	2,172
Median 2/ (years) ...	16.8	17.9	15.9	...	6.7	8.3

1/ From American Samoa.
2/ Median not shown where base (unexpanded) is less than 50.
Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 38.-- LANGUAGE SPOKEN AT HOME BY PERSONS FIVE YEARS OLD AND OVER, BY ABILITY TO SPEAK ENGLISH: 1980

[Unless otherwise specified, data are based on a 15.7 percent sample]

Language	Total	Speak English --			
		Very well	Well	Not well	Not at all
Persons 5 and over	887,707	...	...	...	...
Speak only English at home	658,752	...	...	...	...
Speak a language other than English at home	228,955	110,338	74,946	37,797	5,874
Chinese	20,066	9,057	6,096	4,014	899
Japanese	80,230	39,640	24,705	13,475	2,410
Korean	9,231	2,707	3,317	2,749	458
Philippine language	66,655	26,550	26,311	12,533	1,261
Tagalog (Filipino) 1/	48,160	20,620	18,820	7,960	760
Ilocano 1/	18,820	6,040	8,280	4,120	380
Bisayan 1/	1,040	480	440	120	-
Other Philippine language 1/	240	220	20	-	-
Spanish	11,933	8,752	2,460	697	24
All others 2/..............	40,840	23,632	12,057	4,329	822
Hawaiian 3/	9,060	6,580	2,200	240	40
Samoan 3/	11,020	5,000	4,320	1,640	60
Tongan 3/	1,180	360	560	260	-
Other Polynesian 3/	480	280	120	80	-

1/ Based on the 5-percent Public Use Microdata Sample. The Philippine language subtotal from the 5-percent sample is 68,260, compared with 66,655 for the 15.7-percent sample.

2/ Includes French (2,939), German (3,288), Portuguese (1,650), Thai (2,124), Vietnamese (2,708), various Polynesian languages, and other non-English languages.

3/ Based on the 5-percent Public Use Microdata Sample. "Other Polynesian" includes Maori (spoken at home by 40 persons), Marquesan (200), Tokelauan (120), Pascuenese (40), and Fijian (80).

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, (PC80-1-D13 (October 1983), table 197, and Census of Population and Housing, 1980, Public Use Microdata Sample A-5 Percent (Hawaii), special tabulation by Hawaii State Data Center.

Table 39.-- UNDERSTANDING OF FOREIGN LANGUAGES, BY COUNTIES OR ISLANDS: SPRING 1976

[Data limited to persons born on or before November 2, 1958. This table excludes persons living in institutions or military barracks, or on Niihau or in Kalawao County]

Subject	State total	Oahu	Hawaii Co.	Maui Co.	Kauai
Persons reporting	534,943	431,937	44,904	35,188	22,914
Understand a foreign language	272,988	220,804	21,760	18,350	12,074
Do not understand a foreign language	261,955	211,133	23,144	16,838	10,840
Foreign language understood best, total	272,988	220,804	21,760	18,350	12,074
Japanese	125,710	100,153	11,507	8,553	5,497
Okinawan	710	667	-	24	19
Ilocano	35,300	23,803	4,075	4,638	2,784
Tagalog	7,833	6,852	274	501	206
Visayan	7,009	4,870	628	593	918
Other Filipino	945	738	25	182	-
Mandarin	2,027	2,002	25	-	-
Cantonese	12,802	12,669	95	-	38
Haka	1,489	1,441	-	48	-
Punti	1,159	986	70	66	37
Other Chinese	1,337	1,120	145	72	-
Korean	6,514	6,292	101	46	75
Polynesian	12,093	9,543	816	1,073	661
Other language	57,154	49,205	3,600	2,528	1,821
Unknown	904	463	398	24	19

Source: Hawaii State Department of Health, special tabulation of 1976 Population Survey.

Table 40.-- ALIENS WHO REPORTED UNDER THE ALIEN ADDRESS PROGRAM BY STATUS AND NATIONALITY: 1970, 1979, AND 1980

[Data not available after 1980. The 1981 registration data were never tabulated, and the law requiring aliens to report their addresses annually was repealed on December 29, 1981]

Status and nationality	1970	1979	1980
Total aliens	53,003	69,622	73,018
Status:			
Permanent residents	48,164	62,922	63,045
Other than permanent 1/	4,839	6,700	9,973
Nationality: 2/			
Australia	274	418	464
Canada	1,568	1,861	2,064
China 3/	2,213	3,485	2,127
Germany	691	687	686
Japan	15,351	13,090	13,029
Korea	1,138	6,123	6,527
Laos	23	602	973
Philippines	26,311	33,163	34,597
Samoa, Western	265	651	573
Taiwan 3/	...	437	932
Thailand	168	601	638
United Kingdom 4/	1,548	1,939	2,546
Vietnam	99	1,732	2,649
Other nationalities	3,048	4,070	4,369
Stateless	20	44	291
Unknown	286	719	553
Aliens as percent of resident population 5/	6.9	7.4	7.6

1/ Includes commuter workers (95 in 1980), visitors (816), crewmen (107), students (1,819), exchange aliens (507), refugees (2,351), and others (4,278).

2/ Shown separately for nationalities over 400 in 1980.

3/ Taiwan included with China before 1979.

4/ Including Hong Kong.

5/ Based on April 1 population data (1979 estimated).

Source: U.S. Department of Justice, Immigration and Naturalization Service, records.

Table 41.-- GENERAL POPULATION CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and Co. of Honolulu	Other counties			
			Hawaii	Kalawao	Kauai	Maui
RESIDENT POPULATION						
Total persons	964,691	762,565	92,053	144	39,082	70,847
Percent:						
Change 1970-80	25.3	20.9	45.0	-16.3	31.3	54.1
Under 18 years	28.6	28.1	30.6	0	30.5	29.5
18 to 64 years	63.5	64.6	59.2	74.3	58.4	60.5
65 years and over	7.9	7.3	10.2	25.7	11.1	9.9
Median age	28.3	28.0	29.4	58.1	29.8	29.6
Fertility ratio 1/	307	295	370	0	369	328
15 years and over - Percent now married, including separated:						
Male	56.3	55.7	59.2	51.7	59.9	58.2
Female	58.3	57.8	60.6	54.4	62.3	59.1
In group quarters:						
Total	39,599	36,700	1,617	40	403	839
Percent of total persons	4.1	4.8	1.8	27.8	1.0	1.2
HOUSEHOLDS AND FAMILIES						
Households	294,052	230,214	29,237	71	12,020	22,510
Percent change, 1970-80 .	44.8	39.7	69.4	(NA)	45.1	76.1
Persons per household ...	3.15	3.15	3.09	1.46	3.22	3.11
Families	226,035	176,916	22,784	30	9,475	16,830
Persons per family	3.61	3.62	3.51	2.00	3.62	3.59

1/ Children under 5 years per 1,000 women 15 to 49 years.

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), tables 14 , 21, 47, and 49.

Table 42.-- POPULATION CHARACTERISTICS, BY MILITARY STATUS: 1980

Subject	All groups	Armed Forces	Military dependents 1/	Other civilians
Number	964,691	58,443	61,974	844,274
Race (percent):				
White	34.4	73.7	67.2	29.3
Black	1.8	13.3	7.5	0.6
American Indian, Eskimo, Aleut	0.3	0.9	0.4	0.3
Asian and Pacific Islander	61.2	8.1	20.8	67.9
Other	2.2	3.9	4.0	2.0
Spanish origin (percent)	7.4	7.1	8.9	7.3
Males per 100 females	105.4	1,224.9	48.3	99.3
Median age (years)	28.4	24.9	14.3	29.7
Population per household	3.14	3.29		3.12
Percent in group quarters	4.1	41.1	6.8	1.8
Percent of persons 15 and over married:				
Male	55.7	52.6	21.3	56.7
Female	57.3	44.4	88.9	55.0
Children ever born per 1,000 women 15-44	1,219	460	1,499	1,201
Place of birth (percent):				
Hawaii	57.8	4.2	17.1	64.5
Different State	25.8	87.2	64.2	18.7
Foreign country	14.2	6.1	12.0	14.9
Residence in 1975 (percent):				
Same house as 1980	49.3	3.6	7.2	55.3
Different State	16.9	79.7	65.6	9.2
Abroad	5.9	9.7	14.3	5.1
Percent of persons 25 and over high school graduates	73.8	95.5	84.6	72.2
Percent of persons 16 and over in labor force	68.3	100.0	44.6	66.5
Percent of civilian labor force unemployed	4.7	...	12.2	4.5
Percent of employed persons in managerial and professional specialty occupations	23.5	...	19.4	23.6
Median income in 1979 (dollars):				
Persons	7,325	8,123	3,273	7,532
Families	22,648	14,055	...	24,234
Unrelated individuals	7,154	6,608	...	7,791

1/ Military dependents are defined as civilians in families in which either the householder or the householder's spouse is in the Armed Forces.

Source: Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), tables 1 and 2.

Table 43.-- HOUSEHOLD TYPE AND RELATIONSHIP: 1980

Household type and relationship	State total	Oahu	Other islands
Total persons	964,691	762,565	202,126
In households	925,092	725,865	199,227
Householder	294,052	230,214	63,838
Family householder: Male	190,426	148,549	41,877
Female	35,609	28,367	7,242
Nonfamily householder: Male	37,333	28,632	8,701
Female	30,684	24,666	6,018
Spouse	185,698	145,333	40,365
Child	330,281	260,999	69,282
Brother or sister	11,115	8,989	2,126
Parent	11,493	9,231	2,262
Other relative	50,361	38,890	11,471
Nonrelatives	42,092	32,209	9,883
In group quarters	39,599	36,700	2,899
Inmate of institution	5,785	4,565	1,220
Other	33,814	32,135	1,679
Persons 75 years and over living alone	5,075	3,560	1,515
Persons per household	3.15	3.15	3.12
Persons per family	3.61	3.62	3.56
Persons under 18 years	275,583	214,563	61,020
Householder or spouse	387	295	92
Own child	243,671	190,289	53,382
In married-couple family	204,455	159,866	44,589
With female householder, no husband present	32,392	25,584	6,858
With male householder, no wife present	6,824	4,889	1,935
Other relatives	25,918	19,832	6,086
Nonrelatives	3,985	2,941	1,044
Inmate of institution	387	349	38
Other, in group quarters	1,235	857	378
Persons 65 years and over	76,150	55,368	20,782
Family householder: Male	25,453	17,831	7,622
Female	3,959	3,024	935
Spouse	13,763	9,755	4,008
Other relatives	14,015	10,945	3,070
Nonrelatives	1,887	1,396	491
Nonfamily householder: Male	4,670	3,046	1,624
Female	8,705	6,548	2,157
Inmate of institution	2,961	2,116	845
Other, in group quarters	737	707	30

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 44.-- FAMILY TYPE BY PRESENCE OF OWN CHILDREN: 1980

Presence of own children	All families	Married couple families	Female householder no husband present
Total	226,035	185,698	29,422
With own children under 18 years	132,087	101,644	17,410
With own children under 6 years only	32,604	27,528	4,131
With own children under 6 and 6 to 17 years	25,070	21,883	2,779
Number of own children under 18 years	243,671	204,455	32,392
Number of own children under 6 years	79,619	68,656	9,230

Source: U.S. Bureau of the Census, Census of Population: 1980, General Population Characteristics, Hawaii, PC80-1-B13 (1982), table 21.

Table 45.-- HOUSEHOLDS AND FAMILIES, BY COUNTIES: 1983

County	Households	Families	Population in--		Population per--	
			Households	Families	Household	Family
State total .	313,787	258,316	985,722	907,759	3.14	3.51
Honolulu	240,452	199,756	760,834	704,151	3.16	3.53
Hawaii	34,945	27,092	102,385	91,902	2.93	3.39
Kauai	13,230	10,687	43,194	39,188	3.26	3.67
Maui	25,159	20,782	79,310	72,518	3.15	3.49

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 46.-- MARRIED COUPLES AND SUBFAMILIES: 1960 TO 1980

Subject	1960	1970	1980
Married couples	120,192	154,678	198,398
Married couple families 1/	113,164	147,326	188,933
Married couple subfamilies 2/ ...	7,028	7,352	9,465
Percent	5.8	4.8	4.8
Subfamilies 2/	9,151	10,111	13,319
Married couple subfamilies	7,028	7,352	9,465
Mother-child subfamilies	1,731	2,288	3,132
Other subfamilies	392	471	722

1/ Based on a sample; data may therefore differ somewhat from comparable data in the preceding table.

2/ A subfamily is a married couple (husband and wife enumerated as members of the same household) with or without children, or one parent with one or more never married children under 18 years of age, living in a household and related to either the householder or householder's spouse. The number or percentage of subfamilies is sometimes treated as a measure of the "doubling up" of households.

Source: U.S. Bureau of the Census, 1960 Census of Population, Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 108; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (1972), table 155; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (1983), table 64 and p. B-2.

Table 47.-- MARITAL STATUS, BY SEX: 1980

Marital status	Male	Female
Persons 15 years and over	378,665	360,251
Single	137,448	94,160
Now married, except separated	208,968	204,446
15 to 24 years	14,245	20,190
25 to 34 years	52,447	57,853
35 to 44 years	43,177	41,992
45 to 64 years	71,007	68,766
65 years and over	28,092	15,645
Separated	4,354	5,639
Widowed	7,198	29,220
Divorced	20,697	26,786

Source: U.S. Bureau of the Census, *Census of Population: 1980, General Population Characteristics, Hawaii*, PC80-1-B13 (1982), table 21.

Table 48.-- MARITAL STATUS, BY SEX: 1983

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 5,866 persons 14 years old and over]

Marital status	Male	Female
Persons 14 years old and over	378,112	381,774
Single, never married	125,167	102,494
Married, except separated	229,401	224,893
Separated	2,621	4,286
Widowed	7,845	28,198
Divorced	12,551	21,705
Not reported	527	197

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 49.-- SINGLE, WIDOWED, OR DIVORCED PERSONS, BY SEX: 1866 TO 1980

[Persons 14 years old and over for 1940-1970, and 15 years old and over for other dates]

Year	Single, widowed, or divorced			Never married 1/		
	Male	Female	Sex ratio	Male	Female	Sex ratio
1866	9,857	5,137	191.9	...	...	...
1872	10,196	5,142	198.3	...	...	...
1878	13,281	4,411	301.1	...	...	...
1884	25,386	5,385	471.4	...	...	...
1890	29,406	5,394	545.2	26,930	3,296	817.1
1896	37,238	6,387	583.0	34,992	4,052	863.6
1900	55,540	6,773	820.0	52,800	4,655	1,134.3
1910	51,633	9,667	534.1	46,443	6,744	688.7
1920	51,841	14,616	354.7	45,874	10,721	427.9
1930	86,744	26,059	332.9	79,092	19,602	403.5
1940	111,733	51,669	216.2	102,913	40,733	252.7
1944 2/ ...	433,000	63,000	687.3	410,000	50,000	820.0
1950	94,399	58,995	160.0	81,917	43,445	188.6
1960	98,384	65,156	151.0	84,965	44,376	191.5
1970	119,256	98,016	121.7	104,625	68,009	153.8
1980	165,343	150,166	110.1	137,448	94,160	146.0

1/ Not available before 1890.

2/ Estimate based on fragmentary data.

Source: 1980 from 1980 Census of Population, General Population Characteristics, Hawaii, PC80-1-B13 (July 1982), table 21; 1944 from Honolulu Redevelopment Agency, Redevelopment and Housing Research, No. 22, December 1962, p. 43; other years from Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 31-32.

Table 50.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982

Denomination 1/	Churches	Clergy	Members
Buddhist:			
Honpa Hongwanji	36	40	21,500
Kegonshu Todaiji 2/	1	2	30,000
Others 3/	52+	68+	14,030+
Christian:			
Greek Orthodox (Eastern) 4/	1	1	200
Protestant:			
Assembly of God	(NA)	(NA)	7,000
Church of Jesus Christ of Latter-Day Saints	87	(5/)	31,027
Episcopal	40	85	10,541
Jehovah Witnesses	59	59	4,730
Lutheran	21	25	4,604
Seventh-day Adventists	21	29	4,147
Southern Baptist	60	65	11,340
United Church of Christ	113	129	17,485
United Methodist Church	31	44	6,242
Other Protestant 6/	100+	249+	10,647+
Roman Catholic	64	168	209,000
Other Christian 7/	3+	4+	3,255+
Indian or Hindu derivation 8/	23+	28+	1,880+
Jewish 4/, 9/	1+	2+	442
Muslim	1	-	500
New religious movements (primarily Japanese):			
Tenrikyo	72	300	4,500
Others 10/	20+	28+	7,785+
Shinto:			
Daijingu Temple of Hawaii 2/	(NA)	(NA)	7,500
Kotohira Jinsha Mission 2/	(NA)	(NA)	7,500
Others 11/	(NA)	(NA)	(NA)
Other religious faiths 12/	31+	(NA)	6,306+

Footnotes and source on next page.

Table 50.-- CHURCHES, CLERGY, AND CHURCH MEMBERSHIP, BY DENOMINATIONS: 1982 -- Con.

NA Not available.

1/ Shown separately for denominations with 4,000 or more members, and selected other denominations. For a complete listing, see source.

2/ Membership figure refers to number receiving healing, blessing, or special amulet.

3/ 19 denominations, of which 17 reported data.

4/ Membership figure refers to families rather than individuals.

5/ Lay leaders.

6/ 19 denominations, of which 12 reported number of churches and clergy and 11 reported membership.

7/ 4 denominations (Christian Science, Religious Science, Society of Friends, and Unity), of which 3 reported data.

8/ 9 denominations, of which 8 reported data.

9/ 2 denominations, of which 1 reported data.

10/ 6 denominations, of which 5 reported data.

11/ 3 denominations, of which none reported data.

12/ 4 denominations (Baha'i, Scientology, Unification Church, and Unitarian), of which 3 reported data.

Source: Survey by Department of Religion, University of Hawaii, reported in Geography Department, University of Hawaii, Atlas of Hawaii (1983).

Table 51.-- COMPONENTS OF CHANGE IN THE RESIDENT POPULATION, BY MILITARY STATUS: 1970 TO 1980 AND 1980 TO 1984

Period and component	All groups	Armed forces	Civilian population			
			Military dependents	Not military dependents		
				Number	Annual average	Percent distrib.
1970 TO 1980 1/						
Net change	+194,778	+1,911	+2,165	+190,702	+19,070	100.0
Natural increase	118,654	-447	36,233	82,868	8,287	43.5
Live births	161,831	-	37,234	124,597	12,460	...
Deaths	43,177	447	1,001	41,729	4,173	...
Net mil. separations 2/	-	-1,815	-	+1,815	+181	1.0
Net migration 3/	+76,124	+4,173	-34,068	+106,019	+10,602	55.6
1980 TO 1984 4/						
Net change	+74,000	+300	+3,100	+70,700	+16,600	100.0
Natural increase	57,100	-300	15,900	41,600	9,800	58.8
Live births	79,100	-	16,200	62,800	14,800	...
Deaths	21,900	300	400	21,200	5,000	...
Net mil. separations 2/	...	...	...	...	...	...
Net migration 3/	+16,900	+600	-12,800	+29,100	+6,800	41.2

1/ April 1, 1970 to March 31, 1980.

2/ Separations less inductions for armed forces. Included with net migration after 1980.

3/ Includes error of closure.

4/ April 1, 1980 to June 30, 1984. Provisional.

Source: State Department of Planning and Economic Development, The Population of Hawaii, 1970-1984 (forthcoming).

Table 52.-- INTENDED RESIDENTS ARRIVING IN HAWAII FROM THE MAINLAND UNITED STATES: 1977 TO 1983

[Totals for 1978 and later years apparently reflect changes in passenger response rates resulting from a redesigned questionnaire introduced in July 1978 and withdrawn in July 1979. It is likely that the number of intended residents arriving during these years was significantly higher than the totals shown here]

Calendar year	Number arriving, by military status			
	Total	Military personnel	Military dependents	Other civilians
1977	43,617	12,361	12,771	18,485
1978	39,476	12,294	11,783	15,399
1979	22,559	5,283	4,699	12,577
1980	13,922	5,559	5,097	3,266
1981	18,134	6,981	7,694	3,459
1982	21,068	8,018	9,741	3,309
1983	21,720	7,353	8,562	5,805

Calendar year	Persons per party	High status 1/ (percent)	Median age (years)	From West Coast 2/ (percent)
1977	1.64	70.2	24.0	30.1
1978	1.63	70.3	24.4	29.9
1979	1.58	68.7	25.7	37.6
1980	1.70	72.8	23.9	22.5
1981	1.83	71.6	24.1	23.0
1982	1.91	71.0	24.0	23.0
1983	1.83	67.5	24.3	21.0

1/ Party heads classified as professional, technical, business, managerial, or official as a percent of all party heads reporting civilian occupations.

2/ Persons from California, Oregon, or Washington State as a percent of all persons reporting previous residence.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's In-Migrants, 1983 (Statistical Report 170, October 17, 1984), tables 1 and 2.

Table 53.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1974 TO 1984

[For years ended June 30 through 1976 and September 30 thereafter. Data refer to immigrants admitted to the U.S., reporting Hawaii as their State of intended permanent residence]

Year	Total 1/	Canada	China and Taiwan	Japan
Final data:				
1973	6,881	64	455	544
1974	6,549	64	429	464
1975	7,012	87	555	587
1976	7,789	110	631	556
1976, July-Sept. .	1,882	45	153	(OC)
1977	7,825	175	527	495
1978	9,053	223	409	394
1979	8,944	135	586	365
Provisional data: 2/				
1979	6,882	4	474	135
1980	5,682	-	495	149
1981	6,422	-	477	152
1982	6,890	-	572	88
1983	5,238	-	568	108
1984	5,476	-	575	78

Year	Korea	Philippines	Vietnam 1/	Other countries
Final data:				
1974	1,127	3,418	1,047	
1975	1,476	2,913	196	1,198
1976	1,515	3,222	341	1,414
1976, July-Sept. .	278	859	(OC)	547
1977	1,488	3,568	137	1,435
1978	965	4,398	1,136	1,528
1979	1,192	5,016	286	1,364
Provisional data: 2/				
1979	1,244	4,435	590	
1980	1,150	3,623	265	
1981	1,106	4,350	337	
1982	1,041	4,839	350	
1983	761	3,503	298	
1984	768	3,753	302	

Footnotes and source on next page.

Table 53.-- IMMIGRANTS ADMITTED, BY COUNTRY OF BIRTH: 1974 TO 1984 -- Con.

OC Included with "other countries."

1/ Data exclude Vietnamese refugees still in parole status at the end of each reporting period. Such persons are counted when adjusted under the Immigration and Nationality Act.

2/ Data limited to immigrants entering the United States through Honolulu. Data include conditional entrants and persons admitted under Sec. 319(b), 322(a), and 322(c) but exclude immigrants admitted through other ports and subsequent adjustments to immigrant status. Between 1973 and 1979, final totals have exceeded provisional figures by 30.0-54.2 percent.

Source: U.S. Immigration and Naturalization Service, Annual Report for 1973-1977, and records.

Table 54.-- SOUTHEAST ASIAN REFUGEE ARRIVALS: 1980 TO 1982

Fiscal year ending September 30	Number
1980	2,385
1981	1,422
1982	642

Source: Data from U.S. Department of Health and Human Services, Office of Refugee Resettlement, cited in Statistical Abstract of the United States: 1984, p. 94.

Table 55.-- PERSONS NATURALIZED, BY COUNTRIES OF FORMER ALLEGIANCE: 1971 TO 1981

[Years ended June 30 through 1976, 3-month period ended September 30, 1976, and years ended September 30, 1977 and later]

Year	All countries	China and Taiwan	Korea	Philippines	United Kingdom	All other
1971	2,135	114	221	853	70	877
1972	2,389	230	236	1,096	64	763
1973	2,099	226	260	944	72	597
1974	2,833	238	310	1,505	78	702
1975	3,094	268	537	1,530	97	662
1976	3,130	278	649	1,462	107	634
1976, 3 mo. ..	1,118	97	161	593	53	214
1977	4,532	373	699	2,479	135	846
1978	3,672	289	611	2,055	85	632
1979	4,384	500	771	2,251	101	761
1980	3,473	278	606	1,992	80	517
1981	3,946	317	730	2,014	105	780

Source: U.S. Immigration and Naturalization Service, Annual Report for 1971-1977 and records.

Table 56.-- RESIDENCE FIVE YEARS EARLIER, FOR PERSONS FIVE YEARS OLD AND OVER: 1950 TO 1980

Place of residence 5 years prior to census date 1/	1950	1960	1970	1980
Hawaii residents on census date, 5 years old and over	435,135	551,781	697,840	888,056
Same house as census date	202,100	240,895	320,579	438,009
Different house, same county 2/ ...	141,020	175,971	161,800	223,395
Different county, same state 2/ ...	22,320	15,281	13,347	24,478
Different state in U.S.	61,320	94,768	125,732	149,919
Abroad		19,402	33,518	52,255
Moved, residence not reported	8,375	5,464	42,864	-
Mainland residents on census date, Hawaii residents 5 years earlier	(3/)	84,740	112,443	173,741
Net interstate migration	(3/)	+10,028	+13,289	-23,822

1/ Statistics for 1950 refer to place of residence on August 14, 1945 (V-J Day), approximately 4.6 years prior to the census date.

2/ Islands rather than counties were specified in the 1950 census.

3/ Mobility data for Mainland residents in 1950 referred to place of residence as of April 1, 1949, one year prior to the census date. Persons who were Hawaii residents in 1949 and Mainland residents in 1950 numbered 26,460. Net migration cannot be calculated from these data.

Source: U.S. Census of Population: 1950, Bulletin P-B52, table 17, and Advance Reports, Series PC-14, No. 17, table 12; U. S. Census of Population: 1960, Final Report PC(1)-C13, table 42, and Final Report PC(2)-2B, table 16; U. S Census of Population: 1970, Final Report PC(2)-2E, tables 1 and 4; U. S. Census of Population: 1980, Supplementary Report PC80-S1-9, "State of Residence in 1975 by State of Residence in 1980" (March 1983), tables 1 and 2.

Table 57.-- RESIDENCE IN 1975 BY MILITARY STATUS AND COLLEGE ATTENDANCE: 1980

Age in 1980, military status, and college attendance	Total	In different State in 1975		Abroad in 1975	
		Number	Percent	Number	Percent
Persons 5 years and over	888,056	149,919	16.9	52,255	5.9
In armed forces in 1980	58,093	46,306	79.7	5,648	9.7
Military dependents in 1980 .	48,134	31,569	65.6	6,885	14.3
All others	781,829	72,044	9.2	39,722	5.1
Persons 21 years and over	630,727	105,823	16.8	36,188	5.7
In armed forces in 1975	28,884	16,254	56.3	4,975	17.2
Attending college in 1975 ...	56,666	16,846	29.7	3,478	6.1
Persons 16 years and over	722,633	126,799	17.5	41,530	5.7
In armed forces in 1980	58,093	46,306	79.7	5,648	9.7
Attending college in 1980 ...	55,349	10,524	19.0	5,343	9.7

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 200; Hawaii State Department of Planning and Economic Development, Population Characteristics of Hawaii by Military Status, 1980 (Statistical Report 163, September 30, 1983), table 4.

Table 58.-- MIGRATION BETWEEN 1975 AND 1980, BY SEX, AGE, RACE, MILITARY STATUS AND COLLEGE ATTENDANCE IN 1975 AND 1980, AND COUNTIES: 1980

[Based on place of residence in 1975 and 1980, as reported by persons 5 years and over in 1980. Includes immigration from abroad but excludes emigration]

Subject	In-migrants	Out-migrants	Net migration
Total, 5 years and over 1/ ...	202,174	173,741	28,433
Counties: 2/			
Hawaii	18,655	13,866	4,789
Honolulu	184,695	168,824	15,871
Kalawao	14	63	-49
Kauai	6,786	6,259	527
Maui	16,502	9,207	7,295
Sex: 1/			
Male	112,837	95,645	17,192
Female	89,337	78,096	11,241
Age: 1/			
5 to 9 years	17,213	18,809	-1,596
10 to 14 years	13,863	14,192	-329
15 to 19 years	19,081	15,004	4,077
20 to 24 years	45,698	26,364	19,334
25 to 29 years	33,633	35,367	-1,734
30 to 34 years	24,699	23,937	762
35 to 44 years	24,282	24,841	-559
45 to 54 years	10,432	8,616	1,816
55 to 64 years	7,633	4,141	3,492
65 years and over	5,640	2,470	3,170
Race: 1/			
White	130,311	128,608	1,703
Black	11,636	7,886	3,750
Other races	60,227	37,247	22,980
Armed forces in 1975 or 1980 1/ ...	56,130	43,465	12,665
College in 1975 or 1980 1/	26,456	17,501	8,955

1/ Excludes intercounty migration within Hawaii.

2/ Includes intercounty migration within Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, Gross Migration for Counties: 1975 to 1980, Supplementary Report PC80-S1-17 (March 1984), pp. 26 and 146.

Table 59.-- IN-MIGRATION, TOTAL AND CIVILIAN, BY ORIGIN: 1971 TO 1983

[Hawaii residents reporting different state or country of residence 1 year prior to survey. Excludes persons in institutions or military barracks]

Military status and year surveyed	Number, 1 year old and over			Percent of surveyed population 1/		
	All in-migrants	From U.S. Mainland	From other countries 2/	All in-migrants	From U.S. Mainland	From other countries 2/
Total:						
1971	63,452	51,693	11,759	8.3	6.8	1.5
1972	51,818	41,043	10,775	6.6	5.2	1.4
1973	52,267	43,608	8,659	6.4	5.4	1.0
1974	43,233	34,007	9,226	5.3	4.2	1.1
1975	43,955	34,468	9,487	5.2	4.1	1.1
1976	42,977	33,611	9,366	5.0	3.9	1.1
1977	50,403	41,310	9,093	5.9	4.8	1.1
1978	49,295	39,970	9,325	5.7	4.6	1.1
1979	42,690	33,646	9,044	4.9	3.9	1.0
1980	37,312	30,082	7,230	4.0	3.2	0.8
1981	44,529	34,754	9,775	4.9	3.8	1.1
1982	46,342	38,683	7,659	4.8	4.0	0.8
1983	50,303	42,037	8,266	5.1	4.3	0.8
Civilian: 3/						
1971	30,103	22,333	7,770	4.6	3.4	1.2
1972	22,902	16,948	5,954	3.3	2.5	0.8
1973	21,682	16,762	4,920	3.1	2.4	0.7
1974	19,740	13,402	6,338	2.7	1.8	0.9
1975	20,557	13,886	6,671	2.8	1.9	0.9
1976	27,042	20,176	6,866	3.5	2.6	0.9
1977	25,477	19,555	5,922	3.4	2.6	0.8
1978	26,041	19,820	6,221	3.4	2.6	0.8
1979	22,191	15,278	6,913	2.8	1.9	0.9
1980	18,471	13,255	5,216	2.2	1.6	0.6
1981	23,756	16,272	7,484	2.9	2.0	0.9
1982	25,460	20,762	4,698	3.0	2.4	0.5
1983	22,908	17,199	5,709	2.6	2.0	0.7

1/ Base includes persons under 1 and those not reporting residence one year earlier.

2/ Includes U.S. territories and possessions.

3/ Excludes military dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 60 -- RESIDENCE ONE YEAR EARLIER, BY MILITARY STATUS: 1982 AND 1983

[Excludes persons under one year old and residents of military barracks, institutions, Kalawao, and Niihau. Based on a sample survey of 16,075 persons 1 year old and over in 1982 and 14,994 persons 1 year old and over in 1983]

Place of residence one year earlier	All groups	Armed forces	Military dependents	Other civilians
1982				
Persons 1 year and over	941,425	38,212	57,593	845,620
Same house	788,407	21,570	41,291	725,546
Different house, same island	96,110	7,631	3,449	85,029
Different island	5,232	36	-	5,196
Different state	38,683	6,983	10,937	20,762
U.S. territory or possession	979	204	-	774
Different country	6,680	1,082	1,675	3,924
Previous residence not reported .	5,335	706	241	4,388
Migrants 1/	46,342	8,269	12,612	25,460
Percent of number reporting ...	5.0	22.0	22.0	3.0
1983				
Persons 1 year and over	969,133	41,502	70,508	857,123
Same house	822,408	24,331	46,358	751,719
Different house, same island	79,168	6,256	4,740	68,172
Different island	6,025	110	172	5,743
Different state	42,037	8,324	16,514	17,199
U.S. territory or possession	470	-	-	470
Different country	7,796	1,000	1,557	5,239
Previous residence not reported .	11,229	1,481	1,167	8,581
Migrants 1/	50,303	9,324	18,071	22,908
Percent of number reporting ...	5.3	23.3	26.1	2.7

1/ From different state, territory, or country.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 61.-- LIKELIHOOD OF OUT-MIGRATION, TOTAL AND CIVILIAN: 1980 TO 1983

[Based on the response to the question, "How likely is it that this person will be living some place other than Hawaii one year from today?" The sample excluded persons living in institutions or barracks, in Kalawao, or on Niihau]

Military status and year surveyed	Cumulative number			Cumulative percent 1/		
	Some possibility 2/	Good chance 3/	Almost certain	Some possibility 2/	Good chance 3/	Almost certain
Total:						
1980	55,989	35,521	30,740	6.1	3.9	3.3
1981	55,159	39,431	34,857	5.9	4.2	3.7
1982	56,298	40,169	32,190	5.9	4.2	3.4
1983	55,019	37,697	30,661	5.7	3.9	3.2
Civilian: 4/						
1980	32,216	15,375	12,102	3.9	1.9	1.5
1981	26,388	14,265	11,614	3.1	1.7	1.4
1982	31,664	17,467	13,087	3.7	2.0	1.5
1983	29,476	16,876	10,827	3.4	2.0	1.3

1/ Based on number reporting likelihood.

2/ Reporting either "Some possibility of living elsewhere," "A good chance of living elsewhere," or "Almost certain to be living elsewhere."

3/ Reporting either "A good chance of living elsewhere" or "Almost certain to be living elsewhere."

4/ Excluding members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program.

Table 62.-- LIKELIHOOD OF OUT-MIGRATION, BY MILITARY STATUS: 1982 AND 1983

[Based on response to question, "How likely is it that this person will be living some place other than Hawaii one year from today?" asked of samples of 16,309 persons in 1982 and 15,250 persons in 1983]

Likelihood of out-migration	All groups	Armed forces	Military dependents	Other civilians
1982				
Total	956,118	38,313	60,534	857,271
Almost certain to be living in Hawaii	894,796	29,025	44,709	821,062
Some possibility of living elsewhere	16,130	894	1,039	14,197
A good chance of living elsewhere	7,979	1,058	2,541	4,380
Almost certain to be living elsewhere	32,190	6,857	12,246	13,087
Not reported	5,024	479	-	4,545
1983				
Total	985,722	41,502	73,400	870,820
Almost certain to be living in Hawaii	916,641	32,088	54,714	829,839
Some possibility of living elsewhere	17,322	1,495	3,227	12,600
A good chance of living elsewhere	7,036	279	707	6,049
Almost certain to be living elsewhere	30,661	6,163	13,671	10,827
Not reported	14,062	1,477	1,081	11,505

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Section 2

VITAL STATISTICS AND HEALTH

This section presents data on births, deaths, marriages, divorces, diseases and accidents, nutrition, substance abuse, height and weight, hospitals, dental care, and health personnel.

Vital indexes generally reflect the high health standards of Hawaii. Expectation of life at birth in 1980 was 75.04 years for males and 81.45 years for females. The crude death rate in 1983 was only 5.6 per 1,000 resident population. Deaths under one year of age per 1,000 live births numbered 10.0 in 1983. Diseases of the heart have accounted for almost a third of all deaths in recent years; cancer, for almost one-fourth. The 1983 crude birth rate was 18.7 per 1,000 resident population. The total fertility rate for civilians fell from 3,360 per 1,000 women in 1960 to 2,461 in 1970 and 1,871 in 1980. Over 98 percent of all babies were born in hospitals in 1983, and more than one-fifth were born to military couples. One out of six births was illegitimate. There were 7,793 fetal deaths in 1982, including 6,175 elective abortions. Marriages numbered 14,062 in 1983, with about 27 percent accounted for by nonresidents. Divorces reached a 1983 total of 4,583. The State had 25 acute care civilian hospitals (with 2,875 beds), 34 long-term care facilities (with 2,668 beds), nine specialty care facilities (with 881 beds) and 295 care homes (with 1,614 beds) in 1982. There were 1,976 physicians and surgeons, 746 dentists, 6,208 professional nurses, and 437 pharmacists licensed and living in Hawaii as of January 1984. Acute conditions per 100 persons numbered 209 in 1983, with respiratory conditions the most common complaint (at 154 cases per 100 persons). Among chronic conditions reported in the 1983 survey data, the most frequently mentioned were hypertension without heart involvement (7.3 per 100 persons), impairments of the back or spine (5.4), and hay fever (5.2). The most common communicable disease reported to authorities in 1983 was scarlet fever, with 4,814 cases. State mental health facilities served 9,946 patients in 1983, but the number of in-patients at the end of the year was only 268. Dental health was only fair: according to a 1979 survey, 275,000 residents had not visited a dentist within the previous year, and 176,000 reported one or more dental problems, chiefly cavities. Among persons 12 years old and over in 1979, 55 percent had used alcohol in the preceding month, 33 percent had smoked cigarettes, 14 percent had used marijuana, and 5 percent had used cocaine. The average adult male was 67.5 inches tall and weighed 159.5 lbs.; the average adult female was 62.6 inches and 127.9 lbs.

Major sources for data on vital statistics and health are the annual statistical reports of the Hawaii State Department of Health and various publications of the U.S. Public Health Service. Long-term trends are traced in Historical Statistics of Hawaii, Section 2. Sections 2 and 4 of the Statistical Abstract of the United States: 1984 contain similar data for the nation as a whole.

Table 63.-- BIRTHS AND DEATHS: 1970 TO 1983

[Place of occurrence basis]

Calendar year	Births	Deaths 1/	Rates per 1,000 resident population		Rates per 1,000 live births		
			Births	Deaths 1/	Illegitimate births	Fetal deaths 2/	Infant deaths 3/
1970 ...	16,467	4,197	21.2	5.4	95.8	20.6	19.1
1971 ...	15,845	4,351	19.8	5.4	88.4	23.5	16.0
1972 ...	15,413	4,483	18.6	5.4	93.0	22.8	17.5
1973 ...	15,358	4,579	18.0	5.4	104.0	16.4	13.7
1974 ...	15,528	4,598	17.9	5.3	108.8	16.3	16.0
1975 ...	15,766	4,572	17.8	5.2	123.2	18.9	13.7
1976 ...	16,409	4,717	18.2	5.2	125.0	20.8	11.2
1977 ...	16,983	4,725	18.5	5.2	143.3	21.6	12.3
1978 ...	16,762	4,860	18.0	5.2	160.1	13.5	12.0
1979 ...	17,568	5,138	18.5	5.4	163.5	13.1	10.9
1980 ...	18,216	5,204	18.8	5.4	175.6	15.3	10.8
1981 ...	18,230	5,269	18.6	5.4	181.8	13.1	10.5
1982 ...	18,734	5,495	18.8	5.5	186.3	12.7	8.9
1983 ...	19,164	5,725	18.7	5.6	197.8	11.5	10.0

1/ Includes armed forces.

2/ 20 weeks gestation and over. Includes elective abortions.

3/ Under 1 year of age.

Source: Hawaii State Department of Health, "Vital Statistics and Population of Hawaii, 1900 to 1973," R and S Report, No. 5 (June 1974); Statistical Report for 1973-1982; and records.

Table 64.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1983

[Place of occurrence basis]

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Live births:						
1970	16,467	-	16,467	3,828	12,639	3,828
1971	15,845	-	15,845	3,668	12,177	3,668
1972	15,413	-	15,413	3,543	11,870	3,543
1973	15,358	-	15,358	3,739	11,619	3,739
1974	15,528	-	15,528	3,774	11,754	3,774
1975	15,766	-	15,766	3,821	11,945	3,821
1976	16,409	-	16,409	3,803	12,606	3,803
1977	16,983	-	16,983	3,771	13,212	3,771
1978	16,762	-	16,762	3,656	13,106	3,656
1979	17,568	-	17,568	3,797	13,771	3,797
1980	18,216	-	18,216	3,750	14,466	3,750
1981	18,230	-	18,230	3,502	14,728	3,502
1982	18,735	-	18,735	4,007	14,728	4,007
1983	19,164	-	19,164	4,093	15,071	4,093
Deaths:						
1970	4,197	72	4,125	103	4,022	175
1971	4,351	47	4,304	108	4,196	155
1972	4,483	50	4,433	111	4,322	161
1973	4,579	70	4,509	115	4,394	185
1974	4,598	49	4,549	108	4,441	157
1975	4,572	83	4,489	98	4,391	181
1976	4,717	67	4,650	99	4,551	166
1977	4,724	76	4,648	93	4,555	169
1978	4,852	80	4,772	85	4,687	165
1979	5,137	85	5,052	86	4,966	171
1980	5,204	69	5,135	82	5,053	151
1981	5,269	73	5,196	83	5,113	156
1982	5,495	74	5,421	86	5,335	160
1983	5,725	97	5,628	85	5,543	182
Birth rate: 2/						
1970	20.5	0	22.0	66.2	18.3	34.5
1971	19.0	0	20.3	59.0	16.9	32.5

Continued on next page.

Table 64.-- BIRTHS, DEATHS, AND BIRTH AND DEATH RATES, BY MILITARY STATUS: 1970 TO 1983 - Con.

Subject	All groups	Armed forces	Civilians 1/			Armed forces and dependents
			All civilians	Military dependents	Other civilians	
Birth rate -- Con.: 2/						
1972	17.7	0	18.9	53.5	15.8	30.0
1973	17.1	0	18.2	53.2	15.0	29.1
1974	16.8	0	17.9	55.3	14.7	30.0
1975	16.7	0	17.9	60.0	14.6	31.1
1976	16.9	0	18.0	56.8	14.9	30.5
1977	17.2	0	18.2	58.0	15.2	31.0
1978	16.6	0	17.6	59.8	14.7	30.6
1979	16.9	0	17.9	58.9	15.0	31.0
1980	17.3	0	18.3	58.5	15.5	30.7
1981	17.1	0	18.1	54.5	15.6	29.0
1982	17.2	0	18.1	60.1	15.2	33.0
1983	17.1	0	18.0	61.7	15.1	33.7
Death rate: 2/						
1970	5.2	1.4	5.5	1.8	5.8	1.6
1971	5.2	0.9	5.5	1.7	5.8	1.4
1972	5.2	1.0	5.4	1.7	5.8	1.4
1973	5.1	1.2	5.4	1.6	5.7	1.4
1974	5.0	0.9	5.3	1.6	5.6	1.2
1975	4.9	1.4	5.1	1.5	5.4	1.5
1976	4.9	1.2	5.1	1.5	5.4	1.3
1977	4.8	1.3	5.0	1.4	5.2	1.4
1978	4.8	1.4	5.0	1.4	5.3	1.4
1979	4.9	1.5	5.1	1.3	5.4	1.4
1980	4.9	1.2	5.1	1.3	5.3	1.2
1981	4.9	1.3	5.1	1.3	5.4	1.3
1982	5.1	1.3	5.2	1.3	5.5	1.3
1983	5.1	1.8	5.3	1.3	5.6	1.5

1/ Deaths and death rates revised from Data Book 1983, table 43.
2/ Per 1,000 de facto population.

Source: Hawaii State Department of Health, Statistical Report (annual), and records. Deaths of military dependents estimated by DPED from 1970 and 1980 data on the age composition of military dependents, age-specific death rates in those years for the total civilian population, and annual counts of the military dependent population.

Table 65.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980

[Military dependents are included in the military category. The 1980 rates have been revised from Data Book 1983, table 44]

Type of rate and military status	1960	1970	1980
Crude birth rate, all groups 1/	27.2	21.4	18.8
Civilian	22.9	19.1	16.5
Military	48.8	35.1	35.0
General fertility rate, all groups 2/	127.8	96.1	78.7
Civilian	106.2	84.8	68.9
Military	250.5	169.5	147.5
Total fertility rate, all groups 3/	3,886.5	2,728.5	2,084.0
Civilian	3,360.5	2,461.5	1,871.0
Military	6,480.5	4,275.0	3,496.0
Gross reproduction rate, all groups 4/ ...	1,884.0	1,318.0	1,006.5
Civilian	1,628.0	1,189.5	903.5
Military	3,140.0	2,065.5	1,688.0

Military status and year	Age-specific fertility rates 5/					
	15-19	20-24	25-29	30-34	35-39	40-44
All groups:						
1960	75.4	284.3	221.0	125.1	54.8	15.8
1970	62.5	173.8	169.8	91.7	38.5	8.8
1980	51.7	125.4	121.2	82.9	29.7	5.6
Civilian:						
1960	55.8	229.1	204.3	116.1	52.0	14.8
1970	56.3	151.9	158.0	81.3	36.6	8.2
1980	41.8	102.1	112.1	82.3	30.1	5.4
Military:						
1960	257.9	464.7	297.6	164.6	74.1	37.2
1970	135.1	281.6	227.2	135.3	49.0	26.8
1980	164.5	243.7	172.1	86.8	25.9	6.2

Footnotes and source on next page.

Table 65.-- FERTILITY RATES, BY MILITARY STATUS: 1960, 1970, AND 1980 -- Con.

1/ The annual number of live births per 1,000 resident population.

2/ The annual number of live births per 1,000 women of childbearing age.

3/ The average number of children to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

4/ The average number of girls to whom 1,000 women would give birth according to a set of fertility rates providing the women survive the childbearing years.

5/ Annual live births per 1,000 females in each age group.

Source: Calculations by Eleanor C. Nordyke, Community Population Specialist, East-West Population Institute, based on vital statistics from the Hawaii State Department of Health and special tabulations of decennial census data by military status.

Table 66.-- CHARACTERISTICS OF RESIDENT BIRTHS: 1980 TO 1982

[Excludes births to Hawaii residents occurring out of state]

Subject	1980	1981	1982
Number of resident births	18,129	18,174	18,675
Rate per 1,000 population	18.6	18.5	18.8
Percent on Oahu	77.7	76.7	77.1
Percent attended by M.D. or O.D. in hospital	98.5	98.4	98.0
Males per 100 females	107.0	105.8	105.8
Median weight of single births (grams)	3,280	3,283	3,278
Percent premature (under 2,500 grams)	6.4	6.1	6.6
Percent single births under 40 weeks gestation	50.7	49.7	50.2
Percent plural	1.6	1.7	1.8
Percent with 1 or more congenital malformations	1.0	0.9	0.8
Percent illegitimate	17.6	18.2	18.6
Percent with prenatal visit in first three months	76.5	76.9	74.2
Percent first child born to mother	32.8	33.0	31.9
Percent first child born alive to mother	42.8	43.2	42.4
Median age of mothers (years)	26.0	26.1	26.1
Median age of known fathers (years)	28.8	28.8	28.8

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 67.-- BIRTHS, MIXED AND UNMIXED: 1956 TO 1983

[By place of occurrence through 1973 and place of mother's residence thereafter. Based on data for 7 specified races through 1962, 9 for 1963-1977, 11 for 1978-1981, and 18 for 1982 and 1983]

Calendar year	Total births	Unmixed births	Mixed births 1/	Not certain 2/	Percent distribution		
					Unmixed	Mixed 1/	Not certain 2/
1956 3/.	17,122	10,844	5,703	575	63.3	33.3	3.4
1957 ...	17,040	10,462	5,977	601	61.4	35.1	3.5
1958 ...	16,710	10,157	5,917	636	60.8	35.4	3.8
1959 ...	17,050	10,144	6,183	723	59.5	36.3	4.2
1960 ...	17,193	10,082	6,379	732	58.6	37.1	4.3
1961 ...	17,558	10,142	6,561	855	57.8	37.4	4.9
1962 ...	17,932	10,085	6,803	1,044	56.2	37.9	5.8
1963 ...	17,744	10,267	6,809	668	57.9	38.4	3.8
1964 ...	17,284	9,923	6,681	680	57.4	38.7	3.9
1965 ...	16,259	9,097	6,467	695	56.0	39.8	4.3
1966 ...	14,943	7,905	6,289	749	52.9	42.1	5.0
1967 ...	14,765	7,850	6,149	766	53.2	41.6	5.2
1968 ...	14,595	7,721	5,927	947	52.9	40.6	6.5
1969 ...	15,690	8,203	6,463	1,024	52.3	41.2	6.5
1970 ...	16,467	8,744	6,799	924	53.1	41.3	5.6
1971 ...	15,845	8,479	6,573	793	53.5	41.5	5.0
1972 ...	15,413	8,195	6,443	775	53.2	41.8	5.0
1973 ...	15,358	7,922	6,559	877	51.6	42.7	5.7
1974 ...	15,472	7,989	6,654	829	51.6	43.0	5.4
1975 ...	15,689	8,007	6,726	956	51.0	42.9	6.1
1976 ...	16,292	8,118	7,199	975	49.8	44.2	6.0
1977 ...	16,874	8,130	7,727	1,017	48.2	45.8	6.0
1978 ...	16,717	7,905	7,732	1,080	47.3	46.3	6.5
1979 ...	17,513	8,081	8,267	1,165	46.1	47.2	6.7
1980 ...	18,129	8,281	8,586	1,262	45.7	47.4	7.0
1981 ...	18,174	7,965	8,914	1,295	43.8	49.0	7.1
1982 ...	18,675	8,570	9,107	998	45.9	48.8	5.3
1983 ...	19,090	8,751	9,060	1,279	45.8	47.5	6.7

Footnotes and source follow next table.

Table 68.-- RESIDENT BIRTHS, MIXED AND UNMIXED, BY MILITARY STATUS OF FATHER: 1983

[Based on data for 18 specified races]

Military status of father	Total births	Unmixed	Mixed 1/			Not certain 2/
			Total	Part Haw'n	No Haw'n blood	
All groups	19,090	8,751	9,060	5,618	3,442	1,279
Military	4,077	3,098	978	225	753	1
Civilian 4/	15,013	5,653	8,082	5,393	2,689	1,278
PERCENT DISTRIBUTION						
All groups	100.0	45.8	47.5	29.4	18.0	6.7
Military	100.0	76.0	24.0	5.5	18.5	0.0
Civilian 4/	100.0	37.7	53.8	35.9	17.9	8.5

1/ Includes all Part Hawaiian births, including those in which both parents were Part Hawaiian.

2/ One or both parents of unspecified race (unless one was Part Hawaiian) or both parents classified as "other."

3/ Earliest year available.

4/ Includes births in which father's military status was not reported.

Source: Hawaii State Department of Health, Statistical Report (annual) and special tabulations of 1982 and 1983 data.

Table 69.-- CHILDREN EVER BORN TO WOMEN EVER MARRIED: 1950 TO 1980

Age of woman and year	All women	Women ever married		Children ever born to women ever married 1/			
		Total	Mothers	Total	Per 1,000 women	Per 1,000 women ever married	Per 1,000 mothers ever married
15 years and over:							
1960 2/	188,842	150,451	132,612	462,682	2,450	3,075	3,489
1970	256,725	196,245	168,005	549,335	2,140	2,799	3,270
1980	360,707	268,003	224,146	674,637	1,870	2,517	3,010
15 to 24 years:							
1960	44,813	16,240	12,014	22,537	503	1,388	1,876
1970	69,037	22,904	13,504	21,642	313	945	1,603
1980	87,008	22,663	13,625	21,391	246	944	1,570
25 to 34 years:							
1960	46,963	42,198	37,597	105,676	2,250	2,504	2,811
1970	53,438	46,859	39,799	106,654	1,996	2,276	2,680
1980	88,168	70,352	53,779	114,240	1,296	1,624	2,124
35 to 44 years:							
1960	42,590	40,165	36,584	120,853	2,838	3,009	3,303
1970	48,168	45,224	41,874	141,507	2,938	3,129	3,379
1980	55,285	51,012	45,351	136,045	2,461	2,667	3,000
45 years and over:							
1950 3/	37,620	36,045	31,260	164,370	4,566	4,775	5,258
1960	54,476	51,848	46,417	213,616	3,921	4,120	4,602
1970	86,082	81,258	72,828	279,532	3,247	3,440	3,838
1980	130,246	123,976	111,391	402,961	3,094	3,250	3,618

1/ Excluding stillbirths. Data for 1950 limited to women 45 years old and over.

2/ For earlier years, see Historical Statistics of Hawaii, p. 49.

3/ Data on mothers and children ever born (including computed ratios) exclude 1,620 women ever married not reporting number of children.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 49; U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 70.-- CHILDREN EVER BORN, BY MARITAL STATUS AND AGE OF MOTHERS: 1980

Subject	15 years and over	15 to 24 years	25 to 34 years	35 to 44 years	45 years and over
All women	360,707	87,008	88,168	55,285	130,246
Childless	129,611	69,521	32,274	9,411	18,405
Mothers	231,096	17,487	55,894	45,874	111,841
Children ever born 1/	684,779	26,273	117,508	137,037	403,961
Per 1,000 women	1,898	302	1,333	2,479	3,102
Per 1,000 mothers	2,963	1,502	2,102	2,987	3,612
Single (never married) women .	92,704	64,345	17,816	4,273	6,270
Childless	85,754	60,483	15,701	3,750	5,820
Mothers	6,950	3,862	2,115	523	450
Children ever born 1/	10,142	4,882	3,268	992	1,000
Per 1,000 single women .	109	76	183	232	159
Per 1,000 single mothers	1,459	1,264	1,545	1,897	2,222
Women ever married	268,003	22,663	70,352	51,012	123,976
Childless	43,857	9,038	16,573	5,661	12,585
Mothers	224,146	13,625	53,779	45,351	111,391
Children ever born 1/	674,637	21,391	114,240	136,045	402,961
Per 1,000 women ever married	2,517	944	1,624	2,667	3,250
Per 1,000 mothers ever married	3,010	1,570	2,124	3,000	3,618

1/ Excluding stillbirths.

Source: U.S. Bureau of the Census, 1980 Census of Population, Detailed Population Characteristics, Hawaii (October 1983), table 211.

Table 71.-- WOMEN 14 to 44 YEARS OLD, DELIVERIES, ILLEGITIMATE BIRTHS, AND ABORTIONS: 1950 TO 1980

Subject	1950	1960	1970	1980
Women 14 to 44 years old, April 1	116,100	140,312	178,578	237,698
Married, except separated	69,577	93,260	106,460	120,035
Single, widowed, separated, or divorced	46,523	47,052	72,118	117,663
Deliveries 1/	14,229	18,219	20,753	26,454
Live births	14,054	17,193	16,467	18,216
Fetal deaths, including abortions 2/ ..	175	1,026	4,286	8,238
Illegitimate births 1/	698	881	1,577	3,198
Per 1,000 live births	49.7	51.2	95.8	175.6
Per 1,000 unmarried women 14 to 44	15.0	18.7	21.9	27.2
Elective abortions 1/, 3/	(NA)	3	2,741	6,462
Per 1,000 deliveries	(NA)	0.2	132.1	244.3
Per 1,000 live births	(NA)	0.2	166.5	354.7
Per 1,000 women 14 to 44	(NA)	0.0	15.3	27.2

NA Not available.

1/ Place of occurrence basis. Calendar year data.

2/ Data for 1950 exclude fetal deaths with gestation period less than 20 weeks.

3/ Legal restrictions on elective abortions were removed by S.L.H. 1970, Act 1, effective March 11, 1970.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, Final Report PC(1)-13D, table 105; U.S. Census of Population: 1970, PC(1)-B13, tables 20 and 22; and 1980 Census of Population, PC80-1-B13, tables 19 and 21. Hawaii State Department of Health, Annual Report, 1950, pp. 36, 39, and 49; Annual Report, Statistical Supplement, 1960, pp. 11, 25, and 53; Annual Report, Statistical Supplement, 1970, pp. 6, 23, 50, and 58; and Annual Report, Statistical Supplement, 1980, pp. 9, 18, 40, and 45.

Table 72.-- MOST COMMON NAMES ON BIRTH CERTIFICATES: 1909-1914, 1950, AND 1983

Sex and rank	1983 1/ Name	1983 1/ Number	1950	1909-1914
Boys' names:				
1	Christopher	271	John	John ....
2	Michael	264	Michael	William ......
3	Justin	175	Robert	George ....
4	Jason	173	William	Antonio ......
5	Matthew	169	Dennis	Joseph ....
Girls' names:				
1	Jennifer	224	Linda	Maria ....
2	Jessica	167	Kathleen	Mary ....
3	Ashley	134	Sharon	Amelia ....
4	Nicole	114	Carol	Helen ....
5	Melissa	110	Charlene	Elizabeth ....

1/ A total of 5,251 first names (including variant spellings) was reported for the 19,164 babies born in Hawaii in 1983.

Source: Hawaii State Department of Health, Research and Statistics Office, printout of 1983 records; Bob Krauss, "Today's lesson: the name game," Honolulu Advertiser, September 14, 1979, p. A-3.

Table 73.-- MOST COMMON SURNAMES IN THE OAHU TELEPHONE DIRECTORY: 1975 AND 1985

Rank	1985		1975	
	Name	Columns	Name	Columns
1	Lee	20.0	Lee	18.0
2	Wong	16.75	Wong	16.5
3	Young	11.5	Young	11.5
4	Chang	10.5	Chang	10.5
5	Chun (tie)	9.75	Chun	10.0
6	Smith (tie) ...	9.75	Smith	9.5
7	Kim (tie)	9.75	Nakamura	9.0
8	Ching	8.5	Ching	8.5
9	Lum	7.67	Lum	8.0
10	Nakamura	7.33	Yamamoto; Tanaka (tie)	6.5

Source: Tabulations by Bob Krauss reported in Honolulu Advertiser, November 22, 1975 p. A-3, and January 16, 1985, p. A-3.

Table 74.-- CHARACTERISTICS OF RESIDENT DEATHS: 1980 TO 1982

[Excludes deaths of Hawaii residents occurring out of state]

Subject	1980	1981	1982
Number of resident deaths	4,903	4,927	5,123
Rate per 1,000 population	5.0	5.1	5.2
Percent on Oahu	75.0	74.2	73.6
Males per 100 females	154.4	155.5	143.6
Median age (years)	69.2	70.0	69.4
Number of deaths under 1 year	183	178	158
Per 1,000 live births	10.1	9.8	8.5
Fetal deaths 1/	8,112	8,278	7,793
Per 1,000 deliveries	309	313	294
Fetal deaths, 20 or more weeks gestation 1/, 3/	278	238	262
Per 1,000 live births	15.3	13.1	14.0
Standard fetal deaths 2/	1,716	1,661	1,618
Elective abortions	6,396	6,617	6,175
Per 1,000 live births	353	364	331

1/ Includes elective abortions.
2/ Excludes elective abortions.
3/ Place of occurrence basis.
Source: Hawaii State Department of Health, Statistical Report (annual).

Table 75.-- CAUSE OF DEATH: 1962, 1972, AND 1982

[Resident deaths. Data for 1982, however, exclude deaths of Hawaii residents out of State]

Cause of death 1/	Number, 1982	Percent distribution			Rate per 100,000 population		
		1982	1972	1962	1982	1972	1962
All causes	5,123	100.0	100.0	100.0	515.5	519.8	516.8
Diseases of the heart ..	1,678	32.8	32.6	33.7	168.9	169.3	174.4
Malignant neoplasms	1,251	24.4	20.6	15.7	125.9	107.3	81.3
Cerebrovascular diseases	375	7.3	8.6	9.0	37.7	44.4	46.4
All accidents	279	5.4	6.5	7.1	28.1	33.8	36.6
Influenza and pneumonia	160	3.1	3.5	4.1	16.1	18.4	21.1
Diabetes mellitus	128	2.5	2.4	2.2	12.9	12.6	11.4
Suicide	104	2.0	2.0	1.9	10.5	10.1	9.8
Perinatal conditions ...	70	1.4	3.8	6.8	7.0	19.8	35.1
Other circulatory diseases	66	1.3	1.4	1.1	6.6	7.5	5.9
Bronchitis, emphysema, asthma	64	1.2	1.3	2.0	6.4	6.5	10.4
Cirrhosis of liver	60	1.2	1.7	1.4	6.0	8.7	7.2
Atherosclerosis	53	1.0	0.7	1.2	5.3	3.6	6.3
Congenital anomalies ...	51	1.0	1.3	2.7	5.1	6.5	14.0
All other causes	784	15.4	13.7	11.1	74.5	71.3	56.9

1/ The leading causes of death in 1982, listed according to rank.

Source: Hawaii State Department of Health, Statistical Report, 1982, p. 23.

Table 76.-- DEATHS OCCURRING IN HAWAII, BY METHOD OF DISPOSITION: 1980 TO 1982

Method	1980	1981	1982	Percent distribution 1980	Percent distribution 1981	Percent distribution 1982
All methods	5,204	5,269	5,495	100.0	100.0	100.0
Burial	2,343	2,284	2,324	45.0	43.3	42.3
Cremation	2,241	2,342	2,515	43.1	44.4	45.8
Removal	567	613	613	10.9	11.6	11.2
Entombment	44	23	33	0.8	0.4	0.6
Educational purpose .	-	-	-	0	0	0
Other	1	-	-	0.0	0	0
Unknown	8	7	10	0.2	0.1	0.2

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 77.-- CATASTROPHIC MORTALITY: 1977 TO 1984

[Includes all accidents, natural disasters, and other events causing five or more deaths. Excludes out-of-state deaths to Hawaii residents, such as the Chicago airplane crash which killed 273 persons, including 10 residents of Hawaii, on May 25, 1979. Complete through October 24, 1984]

Date		Place	Kind of disaster	Deaths
1977:	April 13 1/ ...	At sea off Waikiki	Airplane crash	5
1978:	Dec. 9 (?)	At sea off West Hawaii .	Ship disappearance ..	10
1979:	Feb. 11 (?) ...	At sea out of Hana	Boat disappearance ..	5
	Nov. 24	Near Wahiawa	2-car auto crash	5
1980:	May 18	Molokai	Helicopter crash	7
1981:	Dec. 5	Pearl Harbor	Airplane crash	11
1982:	July 24	Near Wahiawa	3-car auto crash	5
1983:	June 16	Honopu, Kauai	Airplane crash	14

1/ For earlier events, see Robert C. Schmitt, "Catastrophic Mortality in Hawaii," The Hawaiian Journal of History, Vol. 3, 1969, pp. 66-86, and "Catastrophic Mortality in Hawaii, 1969-1976," unpublished paper filed in DPED Library, 1976.

Source: DPED file of newspaper accounts.

Table 78.-- EXPECTATION OF LIFE AT BIRTH: PRE-CONTACT TIMES TO 1980

[Average expectation of life (e_0) in years]

Date	Both sexes 1/	Male	Female
Pre-contact times 2/	30	(NA)	(NA)
1847 3/	35-36	(NA)	(NA)
1878-1879 4/	21.88	(NA)	(NA)
1883-1886 4/	31.95	(NA)	(NA)
1889-1892 4/	33.65	(NA)	(NA)
1894-1898 4/	36.89	(NA)	(NA)
1910	43.96	44.04	43.83
1920	45.69	45.64	45.75
1930	53.95	52.70	55.86
1940	62.00	59.92	64.86
1950	69.53	67.77	71.67
1960	72.42	70.39	74.75
1970	74.20	72.12	76.44
1980	78.02	75.04	81.45

NA Not available.

1/ Corresponding values for the entire United States were as follows: 1920, 54.1; 1930, 59.7; 1940, 62.9; 1950, 68.2; 1960, 69.7; 1970, 70.9; and 1980, 73.7. See Statistical Abstract of the United States: 1984, p. 73.

2/ Based on skeletal remains found at Mokapu, Oahu.

3/ Data for northern and northeastern Kauai.

4/ Data for Honolulu.

Source: Robert W. Gardner and Robert C. Schmitt, "Ninety-Seven Years of Mortality in Hawaii," Hawaii Medical Journal, October 1978, pp. 297-302; Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1920-1970, by Chai Bin Park, Robert W. Gardner, and Eleanor C. Nordyke (R&S Report, No. 26, June 1979), and Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R&S Report, No. 47, March 1984).

Table 79.-- SELECTED LIFE TABLE VALUES: 1980

Exact age in years (x)	Average expectation of life in years (e_x)			Number surviving to specified age per 100,000 born alive (l_x)		
	Both sexes	Male	Female	Both sexes	Male	Female
0 1/	78.02	75.04	81.45	100,000	100,000	100,000
1	77.81	74.90	81.15	99,001	98,870	99,147
5	73.97	71.08	77.27	98,796	98,617	98,997
15	64.12	61.26	67.40	98,579	98,358	98,824
25	54.66	51.99	57.50	97,674	97,095	98,350
35	45.14	42.61	48.00	96,741	95,810	97,791
45	35.81	33.40	38.53	95,125	93,806	96,582
55	27.12	25.05	29.50	91,142	88,554	93,788
65	19.19	17.50	21.11	83,153	78,637	87,879
75	12.23	11.02	13.40	67,037	60,056	75,343
85	7.20	6.54	7.68	39,284	31,099	49,188
95	3.97	3.70	4.12	9,639	5,492	14,464

1/ For the entire United States, expectation of life at birth in 1980 was 73.7 years for males and females combined, 70.0 for males, and 77.5 for females; see Statistical Abstract of the United States: 1984, p. 73.

Source: Hawaii State Department of Health, Life Tables by Ethnic Group for Hawaii, 1980, by Robert W. Gardner (R & S Report, No. 47, March 1984), p. 9.

Table 80.-- ACUTE CONDITIONS: 1983

Condition	Incidence of condition per year	Conditions per 100 persons per year
All acute conditions	2,056,074	208.6
Infective parasitic diseases	99,727	10.1
Respiratory condition	1,518,636	154.1
Digestive system condition	38,579	3.9
Injuries	171,575	17.4
All other acute conditions	227,557	23.1

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 81.-- PERSONS ON THE STATE BLIND REGISTER, BY COUNTIES: 1929 TO 1982

[The State Blind Register was established in 1935]

Year	State total	City and Co. of Honolulu	County of Hawaii	County of Kauai	County of Maui
1929 (survey data) ..	(NA)	64	(NA)	(NA)	(NA)
1936: June 30	355	171	78	30	76
1951: June 30	620	398	70	54	98
1970: June 25	1,001	785	87	44	85
1980: June 30	1,568	1,322	85	49	112
1982: June 30	1,751	1,475	93	54	129

NA Not available.

Source: Territorial Bureau of Sight Conservation and Work with the Blind, Their Tomorrows Have Become Our Todays 1935-1951, pp. 2-3; Hawaii State Department of Social Services and Housing, Services for the Blind Branch, tables provided May 14, 1984.

Table 82.-- CHRONIC CONDITIONS: 1983

Selected chronic conditions	Prevalence of condition	Conditions per 1,000 persons
Heart condition	22,121	22.4
Impairment of back or spine	53,193	54.0
Hypertension without heart involvement	72,377	73.4
Arthritis/rheumatism	30,313	30.8
Hearing impairment	30,192	30.6
Asthma with or without hayfever	33,613	34.1
Diabetes	20,425	20.7
Mental and nervous condition	11,262	11.4
Visual impairment	11,373	11.5
Malignant neoplasms	7,816	7.9
Chronic and allergic skin conditions	32,869	33.3
Chronic sinusitis	24,042	24.4
Hayfever without asthma	51,481	52.2
Stomach ulcer	6,210	6.3
Bronchitis/emphysema	11,227	11.4
Benign and unspecified neoplasms	4,533	4.6
Hemorrhoids	11,447	11.6
Thyroid/goiter	2,621	2.7
Varicose veins	8,413	8.5
Gout	8,553	8.7

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 8[illegible] LIMITATION OF ACTIVITY DUE TO CHRONIC OR ACUTE CONDITIONS: 1983

Type of limitation	Number
Persons with one or more chronic conditions	336,694
No limitation of activity	282,116
Limited, but not in major activity	24,264
Limited in amount or kind of activity	19,832
Unable to carry on major activity	10,482
Restricted days in past 12 months 1/	12,788,125
Per person 2/	13.0
Bed days in past 12 months	4,114,394
Per person 2/	4.2
Work days lost by persons 17 years of age and older in past 12 months	1,411,259
Per employed person 17 years and older 2/	3.5
School days lost by persons 6 to 16 years of age in past 12 months	570,945
Per pupil 6 to 16 years of age 2/	3.3

1/ A restricted activity day is one in which a person had to cut down on his usual activity for all or most of the day.

2/ Base includes persons without chronic or acute conditions or restricted activities.

Source: State Department of Health, Hawaii Health Surveillance Survey Program, special tabulation.

Table 84.-- SPECIFIED COMMUNICABLE DISEASES: 1981 TO 1983

Disease	Cases			Deaths		
	1981	1982	1983	1981	1982	1983
All reportable diseases ..	11,438	10,310	11,299	19	18	14
Chickenpox	809	820	1,442	-	-	-
Gonorrhea	4,289	3,706	2,886	-	-	-
Hansen's Disease	49	59	46	2	1	-
Hepatitis, all types	247	187	153	2	5	1
Influenza	96	222	494	1	-	1
Measles (Rubeola)	7	6	2	-	-	-
Meningitis, all types	225	281	319	6	5	2
Mumps	26	21	20	-	-	-
Rubella	15	9	1	-	-	-
Salmonellosis	513	499	335	-	1	-
Scarlet fever, other strep. ...	4,348	3,474	4,814	-	-	-
Syphilis	141	191	159	-	-	-
Tuberculosis	197	252	236	7	6	10
All others	476	583	392	1	-	-

Source: Hawaii State Department of Health, Statistical Report, 1983, p. 126.

Table 85.-- PERSONS 12 YEARS OLD AND OVER WHO HAD EVER USED SPECIFIED SUBSTANCES: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	661	93.5	83.4	91.8	96.1
Cigarettes	427	60.5	35.2	63.5	64.9
Alcohol	560	79.2	52.1	87.2	82.8
Marijuana	222	31.4	31.8	55.7	24.7
Over the counter drugs .	235	33.2	35.8	35.9	31.9
Sedatives	96	13.5	6.1	21.3	12.9
Stimulants	90	12.8	3.5	17.9	13.3
Tranquilizers	178	25.2	5.8	26.7	28.9
Inhalants	55	7.8	10.9	15.9	4.9
Opiates	232	32.8	19.0	37.9	34.4
Hallucinogens	77	10.8	4.2	25.3	8.3
PCP	38	5.3	3.6	14.2	3.3
Cocaine	89	12.6	5.1	27.1	10.2
Heroin	20	2.8	0.4	5.6	2.6
Stimulants 1/	44	6.3	1.7	12.2	5.6
Sedatives 1/	46	6.6	3.8	16.1	4.5
Tranquilizers 1/	43	6.0	3.4	12.4	4.9
Over the counter 1/	24	3.4	2.5	4.9	3.2
Opiates 1/	24	3.4	1.6	7.9	2.5

1/ Non-medical use.
Source follows next table.

Table 86.-- PERSONS 12 YEARS OLD AND OVER WHO HAD USED SPECIFIED SUBSTANCES IN THE PRECEDING MONTH: 1979

[Based on anonymous questionnaires completed by 3,127 household members on six major islands]

Substance	12 years old and over		12 to 17 years old: percent	18 to 25 years old: percent	26 years old and over: percent
	Number (1,000)	Percent			
Coffee	576	81.5	53.9	74.0	89.0
Cigarettes	235	33.3	15.3	40.0	35.0
Alcohol	389	55.1	27.4	68.2	57.3
Marijuana	102	14.4	17.9	31.0	9.0
Over the counter drugs	45	6.4	10.1	6.7	5.5
Sedatives	21	3.0	0.9	5.1	3.0
Stimulants	14	1.9	0.9	3.0	2.0
Tranquilizers	44	6.2	1.5	5.5	7.0
Inhalants	9	1.2	2.9	1.2	0.8
Opiates	39	5.5	6.1	5.9	5.5
Hallucinogens	10	1.4	1.8	4.2	0.5
PCP	3	0.4	0.8	1.2	0.1
Cocaine	33	4.7	2.5	13.0	3.0
Heroin	2	0.3	0	1.1	0.2
Stimulants 1/	8	1.1	0.7	3.0	0.7
Sedatives 1/	9	1.2	0.5	3.8	0.7
Tranquilizers 1/	8	1.1	0.7	3.1	0.7
Over the counter 1/	6	0.8	0.3	1.3	0.7
Opiates 1/	5	0.7	1.0	1.5	0.4

1/ Non-medical use.

Source: Hawaii State Department of Health, Mental Health Division, Alcohol and Drug Abuse Branch, Hawaii State Substance Abuse Survey - 1979. (December 1980), tables 8 and 9.

Table 87.-- NUMBER AND BED CAPACITY OF HOSPITALS AND CARE HOMES, BY TYPE OF FACILITY, BY ISLANDS: 1982

[Except for Tripler Army Medical Center, data are for facilities regulated and licensed by the Hospital and Medical Facilities Branch of the Hawaii State Department of Health and recognized by the Hawaii State Health Planning and Development Agency]

Category and island	All facilities 1/	Acute care 2/	Long-term care	Specialty care	Care homes	
					Residential 3/	Family 4/
NUMBER OF FACILITIES						
State total ..	341	25	34	9	15	280
Oahu	274	12	21	6	10	234
Hawaii	26	5	6	-	1	19
Kauai	18	3	3	1	3	12
Maui	18	3	2	1	-	14
Molokai	4	1	1	1	1	1
Lanai	1	1	1	-	-	-
NUMBER OF BEDS						
State total ..	8,038	2,875	2,668	881	516	1,098
Oahu	6,273	2,299	1,783	838	424	929
Hawaii	749	262	406	-	13	68
Kauai	387	143	121	11	65	47
Maui	547	150	338	8	-	51
Molokai	68	15	12	24	14	3
Lanai	14	6	8	-	-	-

1/ Institutions providing more than one kind of care are counted only once.

2/ Includes Tripler Army Medical Center which had a bed capacity of 509 (plus 52 nursery beds).

3/ Five or more beds.

4/ Four or fewer beds.

Source: Hawaii State Department of Health, Statistical Report, 1982, pp. 101, 102, and 184.

Table 88.-- OCCUPANCY CHARACTERISTICS OF ACUTE AND LONG-TERM CARE CIVILIAN HOSPITALS: BY ISLANDS: 1981

[Excludes Tripler Army Medical Center]

Type of facility and island	Admissions	Average daily census	Average length of stay (days)	Average daily percent occupancy
ACUTE CARE				
State total	99,247	1,675.0	6.2	71.0
Oahu	77,152	1,376.1	6.5	78.1
Hawaii	10,206	131.0	4.7	50.0
Kauai	4,565	74.0	4.7	51.8
Maui	6,868	90.7	4.8	62.1
Molokai	436	3.0	2.5	20.0
Lanai	20	0.1	4.9	1.7
LONG-TERM CARE				
State total	2,478	2,487.3	366.4	93.2
Oahu	1,537	1,644.2	390.5	94.4
Hawaii	464	386.8	304.3	95.3
Kauai	126	122.4	354.6	101.2
Maui	331	319.0	347.6	94.4
Molokai	13	9.4	263.0	78.3
Lanai	7	5.5	286.1	68.8

Source: Data by islands from Hawaii State Department of Health, Statistical Report 1982, pp. 102-105; state totals estimated by Hawaii State Department of Planning and Economic Development.

Table 89.-- HEALTH SERVICES: 1977

Kind of business or operation	All taxable establishments		Taxable establishments with payroll		Tax-exempt establishments with payroll	
	Number	Receipts ($1,000)	Number	Receipts ($1,000)	Number	Expenses ($1,000)
Total	1,797	264,175	1,101	248,561	65	149,107
Offices of physicians	713	145,328	551	139,842	-	-
Offices of dentists	487	61,518	397	58,087	-	-
Offices of osteopathic physicians	10	640	7	546	-	-
Offices of chiropractors	22	1,238	10	903	-	-
Offices of optometrists	59	5,953	41	5,045	-	-
Nursing and personal care facilities	210	15,990	12	13,908	6	6,575
Skilled nursing care facilities	(NT)	(NT)	7	11,484	4	(D)
Nursing and care facilities, n.e.c.	(NT)	(NT)	5	2,424	2	(D)
Hospitals	1	(D)	1	(D)	14	130,447
General medical and surgical	1	(D)	1	(D)	10	110,257
Psychiatric	-	-	-	-	-	-
Specialty, except psychiatric	-	-	-	-	4	20,190
Medical and dental laboratories	74	11,373	43	10,705	-	-
Medical	22	6,921	14	6,667	-	-
Dental	52	4,452	29	4,038	-	-
Other health services	221	(D)	39	(D)	45	12,085
Offices of health practitioners, n.e.c.	(NT)	(NT)	21	1,600	-	-
Outpatient care facilities ..	(NT)	(NT)	11	1,359	34	8,200
Health and allied services, n.e.c.	(NT)	(NT)	7	(D)	11	3,885

D Withheld to avoid disclosing data for individual establishments.
NT Not tabulated.
Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-8, Health Services (May 1981), tables 1 and 2.

Table 90.-- HANSEN'S DISEASE PATIENTS REGISTERED: 1979 TO 1983

Subject	1979	1980	1981	1982	1983
Patients on register, Dec. 31 ..	458	474	506	550	578
Medically released	458	474	506	550	578
At home	328	349	385	432	462
Kalaupapa	124	119	115	112	110
Hale Mohalu or Leahi	6	6	6	6	6
Not medically released	-	-	-	-	-
Net annual increase	21	16	32	44	28
New cases added	33	34	49	49	41
Cases returned to register ...	2	3	4	11	5
Deaths	5	8	6	4	6
Left the State	1	4	1	12	12
Discharged	8	9	14	-	-

Source: Hawaii State Department of Health, Statistical Report, 1983, pp. 131-132.

Table 91.-- PATIENTS SERVED BY STATE MENTAL HEALTH FACILITIES: 1978 TO 1983

Year	Patients active, end of period			Admissions		Terminations	Patients served (undup.)
	Total	In-patients	Out-patients	Total	Unduplicated		
1978 ..	6,886	263	6,623	5,441	5,068	5,522	11,642
1979 ..	6,392	333	6,059	4,564	4,265	5,057	10,713
1980 ..	6,328	440	5,886	5,112	4,696	4,759	10,625
1981 ..	6,642	408	6,213	4,947	4,474	5,062	10,689
1982 ..	6,287	336	5,951	4,885	4,163	5,155	10,312
1983 ..	6,013	268	5,745	4,751	4,102	5,029	9,946

Source: Hawaii State Department of Health, Statistical Report (annual) and records.

Table 92.-- HAWAII STATE HOSPITAL BEDS AND OCCUPANCY: 1979 TO 1984

[Hawaii State Hospital is the only large public psychiatric hospital in Hawaii. Other facilities include Kahi Mohala, an 88-bed private psychiatric hospital opened in September 1983, and acute-care psychiatric beds in nine general hospitals]

Year	Number of beds, June 30	Admissions 1/		Patients in hospital	
		Total	First	Average 1/	June 30
1979	199	787	315	184	204
1980	199	816	321	226	239
1981	220	804	322	214	222
1982	220	990	402	226	221
1983	220	1,070	445	239	243
1984	220	744	276	221	240

1/ Year ended June 30.
2/ Includes patients on leave and absent without leave.
Source: Hawaii State Hospital, records.

Table 93.-- WAIMANO TRAINING SCHOOL AND HOSPITAL: 1979 TO 1984

[Waimano Training School and Hospital is the State institution for the mentally retarded]

Year	Beds, June 30	Admissions 1/	Patients in residence		Patients on leave, June 30
			Average 2/	June 30	
1979	600	13	441	446	613
1980	575	12	437	423	627
1981	575	7	406	397	635
1982	575	6	387	385	621
1983	426	10	365	375	613
1984	410	2	356	364	605

1/ Year ended June 30. Excluding returns from community placement.
2/ Year ended June 30.
Source: Hawaii State Department of Health, Statistical Report (annual); Waimano Training School and Hospital, records.

Table 94.-- PHYSICIANS, DENTISTS, NURSES, AND PHARMACISTS LICENSED IN HAWAII, BY PLACE OF ADDRESS: JANUARY 1984

Place of residence	Physicians and surgeons 1/	Dentists 2/	Registered nurses 3/	Pharmacists 2/
Total licensed	3,273	996	8,156	708
Hawaii addresses ...	1,976	746	6,208	437
Hawaii	155	66	514	36
Maui	135	37	447	38
Lanai	2	1	12	-
Molokai	8	4	28	3
Oahu	1,606	615	4,954	341
Kauai	70	23	253	19
Niihau	-	-	-	-
Out of State	1,297	250	1,948	271

1/ As of January 13, 1984. Permanent licenses only. Does not include interns, residents, or the 26 physicians who provided State government services only.

2/ Eligible for renewal, December 31, 1983.

3/ As of January 13, 1984.

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, Licensing Branch, records.

Table 95.-- DRUG STORES, PHARMACISTS, AND PRESCRIPTIONS: 1977

[Data limited to establishments with payroll]

Subject	State total	Oahu only
Number of establishments	87	70
Sales ($1,000)	170,717	(D)
Prescriptions, total (1,000)	2,911	2,185
Refills (1,000)	638	473
Pharmacists, total, mid-March	168	138
Part-time, working less than 35 hours per week	36	29
Establishments which filled prescriptions paid for by third parties, total	76	59
Third-party prescriptions less than 15 percent of total prescriptions	17	15
15 to 24 percent	13	11
25 percent or more	46	33

D Withheld to avoid disclosure.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 22, 23, 24, and 25.

Table 96.-- ANNUAL OUT-OF-POCKET EXPENSES OF CIVILIAN FAMILIES AND INDIVIDUALS FOR HEALTH SERVICES: 1978-1979

Service	Percent utilizing service		Average expense 1/ (dollars)		Median expense 1/ (dollars)	
	Families	Unrel. indiv.	Families	Unrel. indiv.	Families	Unrel. indiv.
All health services	...	...	834	437	629	278
Excluding insurance premiums	...	...	626	337	404	155
Doctor care	88.9	78.3	233	113	150	75
Hospital care	24.7	12.8	381	646	190	209
Medicine	83.6	69.9	106	74	60	30
Dental care	71.3	45.6	299	196	195	90
Other health services	43.2	29.4	149	130	100	100
Health insurance premiums	...	...	316	179	276	152

1/ For families with expense.

Source: Hawaii State Department of Health, Cost of Medical Care (R and S Report, No. 36, October 1981), pp. 24, 28, 31, 34, 37, 40, 43, 46, and 49.

Table 97.-- PERSONAL HEALTH CARE EXPENDITURES: 1976 TO 1978

[In millions of dollars. Covers all expenditures for health services and supplies, except net cost of insurance and administration, government public health activities, and expenditures of philanthropic agencies for fund raising activities]

Year and object of expenditure	Amount
1976, total	536
1977, total	619
1978, total	691
Hospital care	258
Physicians' services	204
Dentists' services	72
Drugs and medical sundries	64
Nursing home care	29
All other	64

Source: U. S. Health Care Financing Administration, Health Care Financing Review, December 1982, as cited in Statistical Abstract of the United States: 1982-83, p. 103.

Table 98.-- DENTAL CARE, BY AGE GROUP: 1979

[Based on a sample of 4,457 persons surveyed in April-June 1979]

Subject	All ages 1/	Under 20 years	20 to 39 years	40 to 59 years	60 years and over
Population surveyed	867,755	293,667	300,852	175,113	92,666
Months since last visit:					
Less than 6	312,781	111,515	113,509	63,300	22,983
6 to 12	138,438	52,918	52,923	20,147	12,127
Less than 12, unspecified	114,922	42,132	32,545	28,031	10,119
Over 12	219,379	34,942	84,555	56,284	42,578
Never	55,394	47,244	3,653	2,290	2,118
Unknown	26,842	4,916	13,667	5,061	2,742
Services received in past 12 months: 2/					
Checkup	23,601	12,394	6,124	4,272	811
X-Ray	344,731	119,090	133,835	65,831	22,428
Cleaning teeth	434,384	160,282	158,072	83,836	28,742
Fillings	291,238	105,669	114,037	49,970	21,217
Fluoride treatment	155,870	97,968	47,498	8,220	2,183
Extractions	66,266	24,683	25,831	10,512	5,161
Root canal treatment	27,081	3,033	12,894	6,633	4,175
Dentures and/or bridges	35,048	376	7,629	14,641	12,323
Crowns and capping	53,243	8,701	22,939	14,214	7,376
Straightening teeth	16,192	11,913	3,130	1,148	-
Treating gum and/or bone	13,016	867	3,918	5,243	2,987
Other	8,128	4,224	1,796	699	1,409
Unknown	17,642	7,135	4,917	4,189	1,056
Dental problems: 2/					
Cavities	85,192	19,904	44,345	14,491	6,451
Toothache	11,132	1,683	4,666	2,808	1,974
Wisdom tooth	22,066	6,109	13,928	1,513	516
Dentures	32,651	1,547	2,644	12,399	16,061
Crooked teeth or bad bite	33,595	20,436	9,049	2,726	1,384
Disease of gum and/or bone	8,861	452	2,555	4,789	1,040
Other	18,324	5,903	6,918	3,081	2,422
None	636,968	220,371	213,235	135,848	62,908
Unknown	54,917	24,001	18,857	6,063	5,171

1/ Includes 5,456 persons not reporting age.

2/ Some respondents reported two or more categories.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, printout dated January 29, 1981.

Table 99.-- MARRIAGES AND DIVORCES: 1970 TO 1983

[Place of occurrence basis]

Calendar year	Marriages	Divorces and annulments 1/	Rate per 1,000 resident population		Percent of marriages	
			Marriages	Divorces 1/	Nonresident 2/	Interracial
1970 ...	10,599	2,589	13.7	3.3	25.6	33.7
1971 ...	9,734	3,691	12.2	4.6	16.7	38.7
1972 ...	9,750	3,891	11.8	4.7	13.0	38.6
1973 ...	9,776	4,170	11.5	4.9	11.5	40.6
1974 ...	9,649	4,111	11.1	4.7	11.9	40.1
1975 ...	9,673	4,265	10.9	4.8	12.7	39.6
1976 ...	9,769	4,712	10.8	5.2	14.9	38.8
1977 ...	10,266	4,601	11.2	5.0	17.9	37.5
1978 ...	10,736	4,837	11.6	5.2	19.4	37.9
1979 ...	11,678	5,055	12.3	5.3	19.3	38.2
1980 ...	11,856	4,438	12.2	4.6	20.4	37.6
1981 ...	12,218	4,253	12.5	4.3	22.7	36.1
1982 ...	13,483	4,233	13.5	4.2	25.4	35.7
1983 ...	14,062	4,583	13.7	4.5	27.3	35.5

1/ Final decrees only. An interlocutory decree of six months was abolished July 1, 1971.

2/ Both partners nonresidents of Hawaii.

Source: Hawaii State Department of Health, Statistical Supplement (annual), and records.

Table 100.-- MARRIAGE AND DIVORCE RATES BASED ON RISK POPULATION: 1910 TO 1980

Census year	Females 15 years old and over 1/		Marriages 2/		Divorces 2/	
	Unmarried 3/	Married 4/	Number	Rate 5/	Number	Rate 6/
1910	9,667	31,380	2,112	218	210	7
1920	14,616	45,550	2,070	142	548	12
1930	26,059	53,948	2,504	96	546	10
1940	51,669	66,569	4,659	90	906	14
1950	58,995	94,520	5,446	92	1,112	12
1960	65,156	128,528	5,098	78	1,324	10
1970	98,016	166,596	7,312	75	2,452	15
1980	150,166	210,085	9,148	61	4,144	20

1/ Females 14 years old and over for 1940-1970.

2/ Annual averages for two-year periods centering on each census date. Place of occurrence basis. Marriage data for 1969-1970 and 1979-1980 exclude marriages of nonresident brides.

3/ Single, widowed or divorced.

4/ Includes separated persons.

5/ Per 1,000 unmarried females 15 (or 14) years old and over.

6/ Per 1,000 married females 15 (or 14) years old and over.

Source: Robert C. Schmitt, Demographic Statistics of Hawaii: 1778-1965 (University of Hawaii Press, 1968), pp. 214-215 and underlying data; U.S. Census of Population: 1970, Final Report PC(1)-B13, table 22; U.S. Census of Population; 1980, PC80-1-B13, table 21; Hawaii State Department of Health, Annual Report, Statistical Supplement for 1969, 1970, 1979, and 1980.

Table 101.-- CHARACTERISTICS OF MARRIAGES AND DIVORCES: 1980 TO 1982

[Place of occurrence basis]

Subject	1980	1981	1982
MARRIAGES			
Number	11,856	12,218	13,483
Percent on Oahu	73.2	70.9	70.5
Percent Hawaii residents:			
Both bride and groom	75.1	72.5	70.0
One partner only	4.6	4.8	4.6
Neither bride nor groom	20.4	22.7	25.4
Median age (years):			
Groom	28.1	28.3	28.8
Bride	25.8	26.0	26.6
Percent previously married:			
Groom	34.6	35.6	36.7
Bride	34.5	34.8	36.2
DIVORCES AND ANNULMENTS			
Number 1/	4,438	4,253	4,233
Divorces	4,423	4,235	4,219
Annulments	14	18	11
Percent occurring on Oahu	77.7	76.0	77.0
Percent nonresident:			
Husband	11.6	11.7	12.1
Wife	12.4	12.8	12.4
Neither partner	76.0	75.6	75.7
Median age (years):			
Husband	33.0	33.2	33.8
Wife	30.4	30.6	31.2
Percent interracial 2/	39.3	40.3	35.7
Percent with children under 18 years	54.8	54.1	54.0
Median years married	6.0	6.1	6.3

1/ Includes unspecified type of decree.

2/ For these calculations, marriages where both bride and groom are in the "Part Hawaiian" or "Other races" categories are classified as non-interracial.

Source: Hawaii State Department of Health, Statistical Report (annual).

Table 102.-- MARRIAGES OCCURRING IN HAWAII, MIXED AND UNMIXED, BY RESIDENCE STATUS OF PARTNERS: 1982

Residence status	Ethnic stock of bride and groom 1/ Total	Same	Different	Not reported 2/	Percent different 3/
All marriages	13,483	8,601	4,807	75	35.9
Resident marriages 4/	10,056	5,494	4,493	69	45.0
Nonresident marriages 5/	3,427	3,107	314	6	9.2

1/ Based on 14 categories, including "other races" and "unknown."
2/ Both partners "other races," or one or both "unknown."
3/ Base excludes "not reported."
4/ One or both partners classified as residents of Hawaii.
5/ Both partners classified as nonresidents.
Source: Hawaii State Department of Health, special tabulation.

Table 103.-- MARRIAGES OCCURRING IN HAWAII, BY TYPE OF CEREMONY: 1978 TO 1982

Year and residence status	All marriages	Civil	Religious	Not stated	Percent civil
1978	10,736	3,573	7,160	3	33.3
1979	11,678	4,011	7,664	3	34.3
1980	11,856	4,163	7,693	-	35.1
1981	12,218	4,222	7,995	1	34.6
1982	13,483	4,949	8,534	-	36.7
Residence status: 1982					
Resident marriages 1/	10,056	4,066	5,990	-	40.4
Nonresident marriages 2/ ..	3,427	883	2,544	-	25.8

1/ One or both partners classified as Hawaii residents.
2/ Both partners classified as nonresidents.
Source: Hawaii State Department of Health, special tabulation.

Table 104.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY AGE AND SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Age in years	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
Total, 18 and over ...	67.5	62.6	159.5	127.9
18 to 24	68.2	63.2	156.2	123.7
25 to 34	68.6	63.3	164.5	127.6
35 to 44	68.2	62.9	169.5	132.1
45 to 54	67.2	62.3	161.8	130.5
55 to 64	66.5	62.0	154.3	128.5
65 and over	65.3	61.1	143.1	123.3
Age not reported	67.3	62.9	163.5	127.8

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 105.-- AVERAGE HEIGHT AND WEIGHT OF PERSONS 18 YEARS OLD AND OVER, BY ETHNIC STOCK AND SEX: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Ethnic stock	Average height (inches)		Average weight (lb.)	
	Male	Female	Male	Female
All groups	67.5	62.6	159.5	127.9
Caucasian	69.9	64.3	170.0	133.2
Japanese	65.7	61.0	146.3	116.5
Chinese	67.0	62.3	148.1	116.5
Filipino	64.7	61.0	143.1	119.1
Hawaiian	68.2	63.9	185.9	161.1
Korean	66.9	62.1	149.6	116.2
Black or Negro	70.6	64.4	174.6	135.7
Puerto Rican	67.1	62.3	170.8	142.0
Samoan	68.5	64.5	191.0	170.7
Other unmixed or unknown	68.5	63.2	166.4	131.1
Part Hawaiian	68.6	63.7	178.4	145.7
Mixed, non-Hawaiian	67.6	62.5	159.9	127.5

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 106.-- HEIGHT DISTRIBUTION, BY SEX, AND AVERAGE WEIGHT, BY HEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Height (inches)	Cumulative percent		Average weight (pounds)	
	Male	Female	Male	Female
Total	100.0	100.0	159.5	127.9
Under 54	0.1	0.7	(B)	111.0
54	0.1	0.8	(B)	106.0
55	0.1	1.0	(B)	112.9
56	0.2	1.7	(B)	107.3
57	0.3	2.7	(B)	107.8
58	0.4	5.2	122.7	107.9
59	0.7	11.4	124.2	113.6
60	2.1	24.4	126.7	116.3
61	3.5	34.9	131.7	121.3
62	7.3	51.2	133.6	124.6
63	12.1	63.3	136.1	128.7
64	19.8	74.7	140.8	133.9
65	27.8	82.8	145.1	138.5
66	39.3	89.9	150.0	140.3
67	51.2	94.6	155.8	144.4
68	61.8	97.4	161.6	148.5
69	70.7	98.6	168.4	156.5
70	78.4	99.3	170.7	153.2
71	85.7	99.7	177.7	156.8
72	92.7	99.9	182.4	167.4
73	95.7	99.9	188.7	(B)
74	98.1	100.0	193.9	(B)
75	99.0	100.0	198.9	(B)
76	99.6	100.0	201.8	(B)
77	99.8	100.0	205.9	(B)
78	99.9	100.0	210.8	(B)
79 and over	100.0	100.0	192.2	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 107.-- WEIGHT DISTRIBUTION, BY SEX, AND AVERAGE HEIGHT, BY WEIGHT AND SEX, FOR PERSONS 18 YEARS OLD AND OVER: 1975-1980

[Based on a sample of approximately 48,000 Hawaii residents 18 years old and over. Height and weight values are those reported by respondents; inclusion or exclusion of clothing or shoes not specified. Fractional values of 1/2 and over have been rounded upward]

Weight (pounds)	Cumulative percent		Average height (inches)	
	Male	Female	Male	Female
Total	100.0	100.0	67.5	62.6
Under 75	0.0	0.1	(B)	57.8
75 to 99	0.4	7.8	61.4	59.7
100 to 124	7.7	51.2	63.5	61.9
125 to 149	38.3	82.5	65.7	63.4
150 to 174	71.7	93.3	68.0	64.2
175 to 199	90.0	97.7	69.8	64.7
200 to 224	96.8	99.1	70.7	65.0
225 to 249	98.7	99.6	70.9	65.0
250 to 274	99.5	99.9	70.6	65.5
275 to 299	99.8	100.0	71.0	63.9
300 to 324	99.9	100.0	72.1	(B)
325 to 349	99.9	100.0	(B)	(B)
350 and over	100.0	100.0	(B)	(B)

B Base figure too small to meet statistical standards for reliability of derived figure.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 108.-- NUTRITION OF STUDENTS, BY GRADE LEVEL: 1979

Subject	Elementary school		Junior high school		Senior high school	
	Male	Female	Male	Female	Male	Female
Mean daily intake						
Protein (g.)	88	75	104	77	117	74
Vitamin A (R.E.) 1/	1,086	774	924	619	1,115	835
Vitamin C (mg.)	99	94	101	93	156	120
Thiamin (mg.)	1.1	1.0	1.2	1.0	1.5	0.9
Riboflavin (mg.)	2.0	1.7	2.1	1.5	2.6	1.5
Niacin 2/ (mg.)	17	15	20	15	23	14
Calcium (mg.)	943	807	1,063	719	1,200	708
Phosphorus (mg.)	1,337	1,200	1,721	1,206	1,905	1,083
Iron (mg.)	12	10	14	10	15	10
Calories (kcal.)	2,180	1,942	2,654	2,057	3,079	2,028
Breakfast	345		390		356	
Lunch	550		530		529	
Dinner	645		685		732	
Snacks	522		766		1,028	
Sugar (g.)	44	41	61	58	70	57
Cholesterol (mg.)	388	325	466	310	535	297
Fat (g.)	90	82	111	85	128	81
Mean intake as percent of RDA or standard						
Protein	258	221	231	167	209	161
Vitamin A	155	111	92	77	111	104
Vitamin C	220	209	203	186	260	199
Thiamin	95	82	85	90	106	82
Riboflavin	142	120	134	118	151	118
Niacin 2/	108	93	110	97	128	103
Calcium	118	101	89	62	100	59
Phosphorus	167	150	143	100	159	90
Iron	118	104	77	56	83	55
Calories	91	81	98	93	110	97

1/ Retinol Equivalents.

2/ Data exclude the niacin value that could be contributed by tryptophan. Because students in the sample were consuming more than adequate amounts of protein, their niacin levels would be higher than those indicated.

Source: University of Hawaii, Curriculum Research and Development Group, Hawai'i Nutrition Education Needs Assessment, Final Report (May 1980), pp. 19-34.

Table 109.-- DAILY FOOD INTAKE OF INDIVIDUALS: WINTER 1978

Food	Average daily intake (grams)	Percent using in a day
Meats, poultry, fish	244	94.7
Milk, milk products (calcium equivalent)	273	69.8
Eggs	28	32.2
Legumes, nuts, seeds	38	25.8
Grain products	281	96.9
Bread, rolls, biscuits	49	70.4
Rice	116	58.7
Fats, oils	13	62.9
Vegetables	160	86.4
Nonalcoholic beverages	491	77.1
Alcoholic beverages	79	12.2
Fruits	169	58.5
Sugar, sweets	18	53.8

Source: U.S. Department of Agriculture, Science and Education Administration, Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 33-42.

Table 110.-- NUTRITIVE VALUE OF FOOD: WINTER 1978

Nutrient	Average intake per individual in a day		Percent of recommended dietary allowances in a day	Percent of households meeting recommended allowances
	Unit	Amount		
Food energy	Kcal	1,751	81	77
Protein	G	73.8	163	98
Fat	G	75.8	...	...
Carbohydrate	G	188.2	...	...
Calcium	Mg	625	73	50
Iron	Mg	12.6	103	88
Magnesium	Mg	236	79	70
Phosphorus	Mg	1,068	127	96
Vitamin A value	IU	5,429	122	83
Thiamin	Mg	1.23	110	88
Riboflavin	Mg	1.50	116	87
Preformed niacin ...	Mg	18.3	124	...
Vitamin B_6	Mg	1.44	75	68
Vitamin B_{12}	Mcg	5.11	139	84
Vitamin C	Mg	96	166	96

Source: U.S. Department of Agriculture, Science and Education Adminiatration, Food Consumption and Dietary Levels of Households in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 4, April 1981), p. 19, and Food and Nutrient Intakes of Individuals in 1 Day in Hawaii, Winter 1978 (Nationwide Food Consumption Survey 1977-78, Preliminary Report No. 5, May 1981), pp. 58 and 60.

Section 3

EDUCATION

This section presents statistics on enrollment in public and private schools, colleges and universities; students graduated and degrees awarded; the highest grade of school completed; achievement test results; school facilities, personnel, and expenditures; and libraries.

Enrollment in elementary, intermediate and high schools in 1983-1984 totaled 200,240, slightly more than in the preceding year but well below the all-time high of 215,524 reached in 1971-1972. There were 233 public schools with 7,997 classroom teachers and 162,241 students (81.0 percent of the total). There were also 141 private schools with 2,347 teachers and 37,999 pupils. Students graduating from public and private high schools in 1982-1983 numbered 13,248. Some 54,206 students attended colleges and universities in the State in 1983-1984, including 21,112 on the Manoa Campus of the University of Hawaii, 433 at West Oahu College, 3,613 at UH-Hilo, 21,310 at six community colleges, and 7,738 in four private colleges and universities. Ninety-two percent of the children 5 and 6 years old were in school in 1980 (compared with 87 percent in 1970), and 47 percent in the 18- and 19-year-old group were enrolled (compared with 53 percent a decade earlier). The expenditure per pupil in public schools rose from $1,014 in 1972-1973 to $3,098 in 1982-1983. Among adults, the illiteracy rate dropped from 8.4 percent in 1950 to 1.9 percent in 1970, and by 1980 one-fifth percent of all residents 25 years of age or more could report having completed four or more years of college. The Hawaii State Library System, with 47 locations in all four counties, had 4.3 million books, film reels, phonorecords, and other collections in 1983, with an annual circulation of 5.3 million; the University of Hawaii libraries in the same year counted 2.3 million volumes.

The principal sources of data on education are the U.S. Bureau of the Census, Hawaii State Department of Education, University of Hawaii and private colleges and universities. Historical Statistics of Hawaii, Section 9, contains Island data back to 1820. Section 5 of the Statistical Abstract of the United States: 1984 presents comparable information for the nation as a whole.

Table 111.-- SCHOOLS, TEACHERS, PUPIL MEMBERSHIP, AND HIGH SCHOOL GRADUATES, FOR PUBLIC AND PRIVATE SYSTEMS: 1973-1974 TO 1983-1984

School year	Schools 1/			Teachers 1/		
	Total	Public	Private	Total	Public 2/	Private 3/
1973-74 ...	345	225	120	9,728	7,780	1,948
1974-75 ...	345	225	120	9,643	7,711	1,932
1975-76 ...	344	225	119	9,841	7,860	1,981
1976-77 ...	353	227	126	10,115	8,008	2,107
1977-78 ...	356	228	128	9,972	7,891	2,081
1978-79 ...	365	229	136	9,815	7,930	1,885
1979-80 ...	369	229	140	10,125	8,066	2,059
1980-81 ...	371	230	141	10,324	8,113	2,211
1981-82 ...	376	230	146	10,447	8,139	2,308
1982-83 ...	373	233	140	10,302	8,083	2,219
1983-84 ...	374	233	141	10,344	7,997	2,347

School year	Enrollment or membership 1/			High school graduates		
	Total	Public 4/	Private 5/	Total	Public	Private
1973-74 ...	212,012	178,307	33,705	13,612	11,464	2,148
1974-75 ...	211,702	176,844	34,858	13,545	11,283	2,262
1975-76 ...	212,171	176,232	35,939	13,275	11,080	2,195
1976-77 ...	210,736	174,838	35,898	13,823	11,637	2,186
1977-78 ...	208,830	172,649	36,181	13,867	11,464	2,403
1978-79 ...	206,812	170,515	36,297	14,097	11,637	2,460
1979-80 ...	205,580	168,393	37,187	14,013	11,493	2,520
1980-81 ...	202,972	165,094	37,878	14,647	12,088	2,559
1981-82 ...	200,844	162,805	38,039	13,948	11,563	2,385
1982-83 ...	200,129	162,024	38,105	13,248	10,757	2,491
1983-84 ...	200,240	162,241	37,999	(NA)	(NA)	(NA)

NA Not available.

1/ September data for all years.

2/ Special schools excluded through 1978-1979 but included beginning 1979-1980.

3/ Includes special schools for all years.

4/ Includes special schools; excludes pre-kindergarten prior to 1980-1981.

5/ Includes special schools and pre-kindergarten for all years.

Source: Hawaii State Department of Education, data supplied January 23, 1984.

Table 112.-- SCHOOLS, TEACHERS, AND PUPIL MEMBERSHIP, SEPTEMBER 13, 1983, AND HIGH SCHOOL GRADUATES, 1982-1983, FOR PUBLIC AND PRIVATE SYSTEMS, BY ISLANDS

[Data include special schools other than University Laboratory Schools]

Island	Number of schools, September 13, 1983			Number of teachers, September 13, 1983		
	Total	Public	Private	Total	Public	Private
State total	374	233	141	10,344	7,997	2,347
Hawaii	44	30	14	1,124	975	149
Maui	30	20	10	717	593	124
Lanai	1	1	-	27	27	-
Molokai	6	5	1	85	83	2
Oahu	271	163	108	7,932	5,908	2,024
Kauai	21	13	8	456	408	48
Niihau	1	1	-	3	3	-

Island	Pupil membership, September 13, 1983			High school graduates, 1982-1983 school year		
	Total	Public	Private	Total	Public	Private
State total	200,240	162,241	37,999	13,248	10,757	2,491
Hawaii	21,806	19,768	2,038	1,462	1,321	141
Maui	14,216	12,193	2,023	917	769	148
Lanai	467	467	-	38	38	-
Molokai	1,587	1,561	26	92	92	-
Oahu	153,216	120,260	32,956	10,144	7,943	2,201
Kauai	8,920	7,964	956	595	594	1
Niihau	28	28	-	-	-	-

Source: Hawaii State Department of Education, data supplied January 23, 1984.

Table 113.-- PUPIL MEMBERSHIP, PUBLIC AND PRIVATE, BY GRADES: SEPTEMBER 13, 1983

[Excludes the University Laboratory Schools]

Grade	Total	Public	Private
All grades	200,240	162,241	37,999
Nursery	3,354	309	3,045
Kindergarten	15,390	12,559	2,831
1	15,567	12,760	2,807
2	14,726	12,141	2,585
3	13,917	11,506	2,411
4	13,790	11,474	2,316
5	13,493	11,183	2,310
6	13,463	11,125	2,338
7	14,525	11,465	3,060
8	14,950	11,725	3,225
9	15,265	12,277	2,988
10	14,487	11,787	2,700
11	13,844	11,294	2,550
12	12,899	10,302	2,597
Specials	10,570	10,334	236

Source: Hawaii State Department of Education, data supplied January 23, 1984.

Table 114.-- PRIVATE SCHOOLS, TEACHERS, AND MEMBERSHIP, SEPTEMBER 13, 1983, AND PRIVATE HIGH SCHOOL GRADUATES, 1982-1983, BY CHURCH AFFILIATION

[Because of the reclassification of some schools, data in this table are not directly comparable to those in the Data Book 1983, table 86]

Church affiliation	Schools	Teachers	Membership	High-school graduates
Total	141	2,347	37,999	2,491
Church-affiliated	93	1,391	25,276	1,417
Roman Catholic	39	738	14,345	891
Other church-affiliated	54	653	10,931	526
Non-church-affiliated ...	48	956	12,723	1,074

Source: Hawaii State Department of Education, information provided January 23, 1984.

Table 115.-- FEDERALLY-CONNECTED PUPILS IN PUBLIC SCHOOLS: FALL, 1979 TO 1984

Year	All federally-connected pupils		Military dependents	Others 1/
	Number	Percent of total enrollment		
1979	40,745	24.2	20,951	19,794
1980	37,934	23.1	18,980	18,954
1981	36,193	22.3	18,793	17,400
1982 2/	37,104	23.0	19,502	17,602
1983	38,305	23.6	19,965	18,340
1984 3/	38,182	23.3	20,210	17,972

1/ Includes dependents of civilian employees of armed forces.
2/ Revised from Data Book 1983, table 89.
3/ Preliminary.

Source: Hawaii State Department of Education, data supplied February 13, 1985.

Table 116.-- EXPENDITURES, COST PER PUPIL, AVERAGE SALARIES, AND DAYS OF SCHOOL, FOR PUBLIC ELEMENTARY AND SECONDARY EDUCATION: 1972-1973 TO 1982-1983

Fiscal year	Expenditures (dollars)		Cost per pupil 1/ (dollars)	Average annual salary of teachers (dollars)	Number of days of school
	Current operations	Capital outlay			
1972-1973 ..	184,118,840	31,618,093	1,014.02	10,883	174
1973-1974 ..	221,923,654	33,618,196	1,257.40	11,968	176
1974-1975 ..	232,185,601	24,832,512	1,305.00	13,949	178
1975-1976 ..	268,155,310	31,983,000	1,503.39	15,111	178
1976-1977 ..	298,770,753	38,105,500	1,718.34	16,689	175
1977-1978 ..	322,185,202	23,196,000	1,883.79	17,579	175
1978-1979 ..	333,768,126	20,809,000	1,981.35	18,360	173
1979-1980 2/	360,316,441	30,489,000	2,163.62	19,858	163
1980-1981 ..	402,344,699	30,860,000	2,457.32	21,085	176
1981-1982 ..	432,228,402	17,237,000	2,700.72	22,473	177
1982-1983 3/	497,763,951	23,304,890	3,098.23	21,504	174

1/ Based on average daily membership.

2/ Scheduled school days numbered 177; 14 days were missed because of "blue collar strike."

3/ One day missed due to Hurricane Iwa.

Source: Hawaii State Department of Education, data supplied January 23, 1984.

Table 117.-- ENROLLMENT AT THE UNIVERSITY OF HAWAII, BY CAMPUS: FALL 1973 TO 1983

[Fall enrollment in regular credit programs, including concurrent registrants and early admits]

Year	Total, all campuses	University of Hawaii at Manoa				Univ. of Hawaii at Hilo 1/	West Oahu College 2/
		Total	Under-graduates	Grad-uates	Other 4/		
1973 ..	39,858	22,272	16,905	4,110	1,257	2,784	-
1974 ..	40,719	21,526	16,215	4,059	1,252	3,031	-
1975 ..	44,050	21,260	15,671	4,111	1,478	3,526	-
1976 ..	44,326	21,356	15,370	4,284	1,702	3,322	139
1977 ..	43,888	21,106	15,208	4,280	1,618	3,280	201
1978 ..	43,803	21,225	15,148	4,350	1,727	3,053	234
1979 ..	43,375	20,833	14,902	4,258	1,673	3,099	258
1980 ..	43,542	20,319	14,402	4,235	1,682	3,504	247
1981 ..	45,425	20,629	14,487	4,324	1,818	3,478	369
1982 ..	47,527	21,065	14,879	4,328	1,858	3,752	410
1983 ..	46,468	21,112	15,091	4,339	1,682	3,613	433

Year	Community colleges 3/						
	Total	Hono-lulu	Kapio-lani	Lee-ward	Wind-ward	Kauai	Maui
1973 ..	14,802	2,774	3,559	5,376	829	1,004	1,260
1974 ..	16,162	3,306	3,654	5,816	1,046	1,031	1,309
1975 ..	19,264	4,017	4,368	6,900	1,153	1,238	1,588
1976 ..	19,509	4,450	4,617	6,450	1,154	1,186	1,652
1977 ..	19,301	4,402	4,494	6,159	1,353	1,245	1,648
1978 ..	19,291	4,386	4,738	5,893	1,415	1,137	1,722
1979 ..	19,185	4,576	4,641	5,540	1,505	1,104	1,819
1980 ..	19,472	4,509	4,978	5,575	1,442	1,082	1,886
1981 ..	20,949	5,211	5,089	6,032	1,489	1,201	1,927
1982 ..	22,300	5,331	5,560	6,261	1,568	1,272	2,308
1983 ..	21,310	5,131	5,284	6,060	1,462	1,190	2,183

Footnotes and source follow next table.

Table 118.-- DEGREES, DIPLOMAS, AND CERTIFICATES CONFERRED BY THE UNIVERSITY OF HAWAII: 1973 TO 1983

Year ended June 30	University of Hawaii at Manoa					
	Associate	Bachelor	Master	Doctor	First profes-sional 5/	Other 6/
1973	65	3,050	1,272	98	-	370
1974	85	3,260	1,165	109	-	281
1975	57	3,176	1,110	94	62	213
1976	68	3,070	1,132	116	102	183
1977	58	3,076	1,019	135	113	164
1978	61	3,077	1,007	129	125	157
1979	69	2,785	1,063	122	122	134
1980	46	2,756	969	102	136	124
1981	57	2,618	968	115	152	106
1982	52	2,521	993	111	137	122
1983	52	2,639	938	120	132	120

Year ended June 30	University of Hawaii at Hilo 1/			West Oahu College: bachelor 2/	Community colleges 3/	
	Certifi-cates	Associate degrees	Bachelor degrees		Certifi-cates 7/	Associate degrees
1973	121	124	155	-	439	1,062
1974	83	139	146	-	329	1,179
1975	81	179	189	-	352	1,402
1976	83	230	162	-	414	1,559
1977	93	255	196	6	420	1,598
1978	69	280	206	12	456	1,864
1979	92	255	166	34	509	1,964
1980	86	256	160	48	480	1,807
1981	57	261	171	47	483	1,763
1982	74	263	160	46	519	1,882
1983	68	242	193	91	509	2,008

1/ Includes Hilo College, College of Agriculture, and Hawaii Community College.

2/ Opened Spring 1976.

3/ Excludes Hawaii Community College, part of the University of Hawaii at Hilo.

4/ Includes unclassified, special and no data on student level.

5/ Includes Doctor of Jurisprudence (J.D.) and Doctor of Medicine (M.D.).

6/ Certificates in Dental Hygiene and professional diplomas.

7/ Includes certificates of achievement.

Source: University of Hawaii, Office of Institutional Research and Analysis, data provided November 30, 1983.

Table 119.-- ENROLLMENT AND EARNED DEGREES CONFERRED, FOR PRIVATE COLLEGES AND UNIVERSITIES: 1982 AND 1983

[Excludes extension programs of mainland and foreign schools and other limited or specialized curriculum programs]

Year and type of enrollment and earned degree	All private institutions	Brigham Young Univ.-Hawaii Campus	Chaminade Univ. of Honolulu	Hawaii Loa College	Hawaii Pacific College
1982					
Fall enrollment 1/	*6,827	1,786	2,113	402	*2,526
Undergraduate	*6,707	1,786	1,993	402	*2,526
Graduate	120	-	120	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	170	37	41	-	92
Bachelor's	613	146	301	35	131
Master's	60	-	60	-	-
Others	-	-	-	-	-
1983					
Fall enrollment 1/	7,738	1,868	2,415	400	3,055
Undergraduate	7,603	1,868	2,280	400	3,055
Graduate	135	-	135	-	-
Other 2/	-	-	-	-	-
Earned degrees conferred: 3/					
Associate	218	55	39	-	124
Bachelor's	646	127	284	39	196
Master's	56	-	56	-	-
Others	-	-	-	-	-

* Revised from Data Book 1983, table 92.

1/ In regular credit programs.

2/ Includes unclassified and special.

3/ Year ended June 30.

Source: Compiled by Hawaii State Department of Planning and Economic Development from college officials.

Table 120.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES: 1974 TO 1981

[Thousands of dollars. Fiscal years]

Fiscal year	State total	University of Hawaii at Manoa
1974	30,850	30,412
1975	28,023	26,888
1976	37,615	34,937
1977	34,827	28,465
1978	44,070	25,884
1979 1/	40,271	29,525
1980	44,940	31,935
1981	37,927	27,280

1/ Revised from Data Book 1983, table 93.
Source follows next table.

Table 121.-- FEDERAL OBLIGATIONS TO UNIVERSITIES AND COLLEGES, PUBLIC AND PRIVATE, BY TYPE OF ACTIVITY: FISCAL YEAR 1981

Activity	Number of recipient institutions		Federal obligations ($1,000)		
	Public	Private	Total	Public	Private
Total, all activities	8	3	37,927	36,314	1,613
Academic science/engineering	3	-	27,279	27,279	-
Research and development	3	-	24,048	24,048	-
R&D plant	1	-	37	37	-
Facilities for instruction	-	-	-	-	-
Fellowships, training grants ..	1	-	425	425	-
General support	1	-	838	838	-
Other science/engineering	2	-	1,931	1,931	-
Non-science/engineering	8	3	10,648	9,035	1,613

Source: National Science Foundation, Federal Support to Universities, Colleges, and Selected Nonprofit Institutions, Fiscal Year 1981, Final Report NSF 83-315 (1983), pp. 48, 50, 92, and 107.

Table 122.-- EDUCATIONAL CHARACTERISTICS: 1970 AND 1980

Subject	1970	1980	Percent	
			1970	1980
SCHOOL ENROLLMENT				
Persons 3 years old and over enrolled in school 1/	235,765	266,181	100.0	100.0
Nursery school	7,707	12,808	3.3	4.8
Private	5,524	9,608	2.3	3.6
Kindergarten	14,615	14,289	6.2	5.4
Private	1,635	2,932	0.7	1.1
Elementary (1 to 8 years)	127,678	118,991	54.2	44.7
Private	13,770	19,644	5.8	7.4
High school (1 to 4 years)	57,455	65,609	24.4	24.6
Private	7,360	10,824	3.1	4.1
College	28,310	54,484	12.0	20.5
YEARS OF SCHOOL COMPLETED				
Persons 25 years old and over	384,843	547,608	100.0	100.0
Elementary: 0 to 4 years	32,080	28,969	8.3	5.3
5 to 8 years	63,256	59,576	16.4	10.9
High school: 1 to 3 years	51,365	54,793	13.3	10.0
4 years	138,307	192,042	35.9	35.1
College: 1 to 3 years	46,088	100,813	12.0	18.4
4 or more years	53,747	111,415	14.0	20.3

1/ 1970 figures include persons 3 to 34 years old only.

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), table 61.

Table 123.-- SCHOOL ENROLLMENT BY AGE: 1970 AND 1980

Age	Number enrolled in school		Percent enrolled in school	
	1970	1980	1970	1980
Persons 3 years old and over enrolled in school	238,925	266,181	...	...
3 and 4 years old	7,097	11,436	24.5	39.0
5 and 6 years old	27,683	26,070	87.4	92.0
7 to 13 years old	108,757	102,604	96.7	98.9
14 and 15 years old	30,409	31,741	95.8	98.6
16 and 17 years old	26,362	31,711	90.8	93.4
18 and 19 years old	14,486	16,869	53.1	46.9
20 and 21 years old	7,672	11,164	22.4	25.6
22 to 24 years old	6,357	10,907	13.6	17.5
25 to 34 years old	6,942	15,254	6.4	8.5
35 years old and over	3,160	8,425	...	...

Source: U.S. Bureau of the Census, 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 51; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 66.

Table 124.-- EDUCATIONAL CHARACTERISTICS, BY COUNTIES: 1980

County	Persons 3 years old and over enrolled in kindergarten or elementary school--percent in private school	Civilian persons 16 to 19 years old--percent not enrolled in school, not high school graduates	Persons 18 to 24 years old--percent enrolled in school	Persons 25 years old and over	
				Percent high school graduates	Percent completed 4 or more years of college
The State ..	16.9	7.1	27.4	73.8	20.3
Hawaii	6.5	6.6	27.1	68.9	15.2
Honolulu	18.5	7.0	28.4	75.6	21.7
Kalawao	-	-	-	28.2	3.5
Kauai	16.2	7.1	21.9	64.1	15.7
Maui	15.3	9.5	15.7	67.7	15.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 56.

Table 125.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY AGE: 1983

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Based on a sample survey of 8,999 persons 25 years old and over]

Years of school completed	25 years old and over	25 to 44 years old	45 to 64 years old	65 years old and over
All levels .	568,457	301,746	187,182	79,529
None	5,302	672	1,401	3,230
1 to 4 years	12,377	840	3,644	7,893
5 to 8 years	45,346	5,506	16,347	23,493
9 to 11 years ...	42,786	17,215	17,958	7,613
12 years	215,043	116,394	81,623	17,026
Vocational	33,062	19,484	11,743	1,834
13 to 15 years ..	83,483	60,746	18,265	4,472
16 years	67,044	44,297	16,224	6,524
17 years or more	54,911	33,862	16,686	4,363
Not reported	9,102	2,729	3,292	3,081
Median 1/ (years)	12.8	12.3	12.6	10.4

1/ Excludes vocational and not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 126.-- YEARS OF SCHOOL COMPLETED BY PERSONS 25 YEARS OLD AND OVER, BY ETHNIC STOCK: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 8,999 persons 25 years old and over]

Ethnic stock 1/	Persons 25 years and over	Percent 2/		
		8 years or less	12 years or more	16 years or more
All groups	568,457	11.3	81.1	21.8
Unmixed:				
Caucasian	159,965	4.1	90.4	33.5
Japanese	164,308	13.1	80.5	22.2
Chinese	33,361	12.4	81.5	34.4
Filipino	65,736	32.4	59.3	10.0
Hawaiian	6,568	26.1	55.2	2.4
Korean	9,664	17.0	77.0	19.0
Black	7,332	0.9	98.1	11.7
Puerto Rican	4,535	24.8	64.9	2.2
Samoan	4,486	16.8	61.1	3.6
Other unmixed 3/	5,248	19.2	58.3	10.8
Mixed:				
Part Hawaiian	72,118	4.6	82.2	9.3
Non Hawaiian	35,135	3.4	88.1	15.0

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

2/ Based on number reporting years of school.

3/ Includes persons not reporting ethnic stock.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 127.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1977 TO 1983

[Percent of students taking test. National norms are: below average, 23 percent; average, 54 percent; above average, 23 percent]

Grade, subject, and level	1977	1978	1979	1980	1981	1982	1983
GRADE 4							
Reading:							
Below average ..	29	27	25	24	19	20	18
Average	56	57	57	58	58	59	59
Above average ..	15	16	18	18	23	21	23
Math:							
Below average ..	30	27	26	26	22	23	23
Average	48	50	51	51	52	53	53
Above average ..	22	23	23	23	26	24	24
GRADE 6							
Reading:							
Below average ..	29	25	23	21	17	16	16
Average	55	57	59	60	62	62	63
Above average ..	16	18	18	19	21	22	21
Math:							
Below average ..	32	25	24	23	19	19	20
Average	47	50	50	51	52	53	53
Above average ..	21	25	26	26	29	28	27
GRADE 8							
Reading:							
Below average ..	33	33	32	30	29	26	23
Average	54	54	55	56	56	59	61
Above average ..	13	13	13	14	15	15	16
Math:							
Below average ..	36	27	28	26	23	22	21
Average	45	51	51	51	53	53	55
Above average ..	19	22	21	23	24	24	24

Continued on next page.

Table 127.-- STANFORD ACHIEVEMENT TEST RESULTS FOR PUBLIC SCHOOL GRADES 4, 6, 8, AND 10: 1977 TO 1983 -- Con.

Grade, subject, and level	1977	1978	1979	1980	1981	1982	1983
GRADE 10							
Reading:							
Below average ..	35	34	32	32	34	32	29
Average	50	51	52	52	51	52	54
Above average ..	15	15	16	16	15	16	17
Math:							
Below average ..	29	26	26	25	25	24	24
Average	50	52	53	53	54	55	55
Above average ..	21	22	21	22	21	21	21

Source: Hawaii State Department of Education, Test Development and Administration Section, Summary Report of Statewide Testing Program, 1983, pp. 8, 11, 17, and 23.

Table 128.-- HAWAII STATE LIBRARY SYSTEM LOCATIONS, PERSONNEL, AND HOURS: 1973 TO 1983

Year	Number of library locations, June 30			Personnel, June 30 1/		Hours open 2/
	State total	Oahu	Other islands	Librarians	All others	
1973 ..	40	19	21	111	340.17	56
1974 ..	40	19	21	102	306.07	56
1975 ..	42	20	22	96	312.95	54
1976 ..	43	20	23	103	304.48	54
1977 ..	44	20	24	113	311.95	54
1978 ..	45	21	24	115	310.45	54
1979 ..	46	22	24	117	312.80	54
1980 ..	47	22	25	122	313.30	54
1981 ..	47	22	25	122	315.30	54
1982 ..	47	22	25	124.40	349.55	54
1983 ..	47	22	25	126	356.55	54

1/ Full-time equivalent basis, excluding student help.

2/ Regular weekly totals for Hawaii State Library, 478 So. King St., Honolulu.

Source: Hawaii State Department of Education, Office of the State Librarian, information submitted June 15, 1984.

Table 129.-- HAWAII STATE LIBRARY SYSTEM COLLECTIONS AND CIRCULATION: 1973 TO 1983

Year	Collections, June 30			Circulation, year ended June 30
	Books	Audio-visual microforms	Other print	
1973	1,388,290	(NA)	(NA)	4,024,186
1974	1,473,353	(NA)	(NA)	3,984,706
1975	1,593,218	(NA)	(NA)	4,268,409
1976	1,665,098	(NA)	(NA)	4,424,434
1977	1,765,482	(NA)	(NA)	4,597,248
1978	1,837,166	425,342	770,527	4,860,029
1979	1,924,572	476,235	752,643	5,008,477
1980	2,025,200	513,595	797,691	5,042,682
1981	2,118,238	518,513	804,735	5,267,042
1982	2,238,973	(NA)	(NA)	5,263,130
1983	2,203,394	648,747	1,494,294	5,321,684

NA Not available.

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted June 15, 1984.

Table 130.-- CHARACTERISTICS OF THE HAWAII STATE LIBRARY SYSTEM: 1983

District	Library locations, June 30	Personnel, June 30 1/	Circulation, year ended June 30
Total system	47	441.55	5,321,684
Oahu	22	247.5	3,647,015
Hawaii State Library	1	74.0	488,598
Library for the Handicapped	1	14.0	37,075
East Oahu Library District	12	98.5	2,100,648
West Oahu Library District	8	61.0	1,020,694
Other islands	25	127.55	1,674,669
Hawaii Library District	13	59.55	830,742
Kauai Library District	5	30.0	411,508
Maui Library District 2/	7	38.0	432,419
Administration	...	66.5	...

District	Collections, June 30		
	Books	Audio-visual microforms	Other print
Total system	2,203,394	648,747	1,494,294
Oahu	1,525,727	577,772	1,024,671
Hawaii State Library	421,298	537,740	727,929
Library for the Handicapped	68,547	4,790	2,050
East Oahu Library District	686,241	32,979	196,031
West Oahu Library District	349,641	2,263	98,661
Other islands	677,667	70,975	469,623
Hawaii Library District	286,187	27,401	227,780
Kauai Library District	183,055	15,753	89,448
Maui Library District 2/	208,425	27,821	152,395

1/ Full-time equivalent basis. Data are limited to regular, general funded positions, and exclude student help.

2/ Includes libraries on Lanai (1 location), Maui (5 locations), and Molokai (1 location).

Source: Hawaii State Department of Education, Office of the State Librarian, data submitted June 15, 1984.

Table 131.-- UNIVERSITY OF HAWAII LIBRARY SYSTEM HOLDINGS AND CIRCULATION, BY CAMPUS: 1982 AND 1983

Campus	Number of volumes, June 30		Circulation, year ended June 30	
	1982	1983	1982	1983
All campuses	2,257,900	2,330,272	579,592	592,347
University of Hawaii at Manoa	1,852,813	1,914,846	375,785	377,385
West Oahu College	14,555	17,173	6,309	5,836
University of Hawaii at Hilo 1/	163,641	165,533	49,263	50,900
Community colleges, total 1/	226,891	232,720	148,235	158,226
Honolulu	46,324	48,562	45,797	50,356
Kapiolani	29,817	31,987	10,573	13,159
Leeward	59,051	58,430	42,618	42,045
Windward	26,373	27,534	9,890	10,053
Kauai	31,985	32,866	16,144	19,223
Maui	33,341	33,341	23,213	23,390

1/ Hawaii Community College is included with the University of Hawaii at Hilo.

Source: University of Hawaii at Manoa, University Libraries, data provided December 22, 1983.

Section 4

LAW ENFORCEMENT, COURTS AND PRISONS

Statistics in this section refer to crime and delinquency, the police, attorneys, the judiciary system, prisons, and youth correctional facilities.

Major offenses reported to the police in 1983 numbered 59,000, compared with 65,000 in 1982 and 42,000 in 1973. The rate per 1,000 population increased from 49 in 1973 to 74 in 1981, then declined to 58 in 1983. Seventy-eight percent of the 1983 total occurred on Oahu. For the State as a whole, major offenses known to police in 1983 included 57 murders or cases of non-negligent manslaughter, 301 rapes, 1,330 robberies, 891 aggravated assaults, 13,636 burglaries, 38,920 cases of larceny, and 4,297 auto thefts. The value of property reported stolen in 1983 amounted to $26 million, exclusive of motor vehicles; only 8.3 percent was recovered. In 1977, when asked whether they or their immediate families had been victims of crime (burglary, assault, etc.) in Hawaii since 1970, 40 percent of all Oahu adults and a fourth of all Neighbor Island adults answered affirmatively. Twenty-one percent of the major offenses known to police were cleared by arrest or otherwise in 1983. Thirty-nine percent of the persons arrested for major crimes and 22 percent of those arrested for lesser offenses in 1983 were less than eighteen years of age. The number of inmates in the nine State correctional institutions averaged 1,402 during 1983; of this number, 812 were adults serving time for felonies. Cases filed in the State Supreme Court, Intermediate Court of Appeals, four circuit courts, and four district courts and their divisions during fiscal 1983 numbered 999,000, including 898,000 traffic cases. Filings in the United States District Court for Hawaii included 1,136 civil cases, 2,408 criminal cases, and 677 bankruptcy cases. The last legal execution in Hawaii took place in 1947. Governmental expenditures on the criminal justice system in 1979 amounted to $103 million, more than half of the total going for police protection. There were 2,963 attorneys licensed in Hawaii as of mid-1984.

Statistics on law enforcement, courts, and corrections in Hawaii appear in the annual reports of the county police departments, the State Judiciary, the Intake Service Center, and the Administrative Office of the United States Courts. The Hawaii Criminal Justice Data Center issues quarterly and annual reports titled Crime in Hawaii. Figures on crime, the courts, and corrections in earlier years appear in Historical Statistics of Hawaii, Section 10. National data are summarized in the Statistical Abstract of the United States: 1984, Section 6.

Table 132.-- CRIMINAL JUSTICE SYSTEM EXPENDITURE AND EMPLOYMENT: 1979

Subject	Total expenditure, fiscal year 1/ ($1,000)	Employment, October		Payroll, October ($1,000)
		Total	Full-time equiv.	
Total	102,897	4,553	4,518	5,938
By level of government: 2/				
State	47,397	1,694	1,685	2,158
Local	57,282	2,859	2,833	3,780
By activity:				
Police protection	53,416	2,719	2,698	3,533
Judicial	15,275	682	681	837
Legal services and prosecution	6,987	323	318	500
Public defense	1,453	57	57	80
Corrections	23,951	743	735	942
Other criminal justice	1,815	29	29	47

1/ Fiscal year ended June 30, 1979.

2/ State and local government expenditures do not add to indicated total because duplicative intergovernmental transfers are netted out of total (see footnote 4, p. 44 of source).

Source: U.S. Department of Justice, Bureau of Justice Statistics, Justice Expenditure and Employment in the U.S., 1979 (June 1983), tables 6, 9, and 10.

Table 133.-- ACTUAL MAJOR (PART I) OFFENSES KNOWN TO THE POLICE, BY COUNTIES: 1973 TO 1983

[Part I offenses include murder, negligent and non-negligent manslaughter, forcible rape, robbery, aggregated assault, burglary, larceny-theft, motor vehicle theft, and, since 1979, arson. Arson, however, is excluded from this table. Actual offenses include reported or known offenses, less unfounded cases. Data revised from Data Book 1983, table 105]

Year	State total		City and County of Honolulu	Hawaii County	Kauai County	Maui County
	Number	Rate 1/				
1973	41,850	49.2	35,275	2,612	1,596	2,367
1974	51,451	59.3	43,572	3,031	1,732	3,116
1975	51,782	58.6	43,612	3,202	1,777	3,191
1976	55,603	61.6	45,307	3,918	2,172	4,206
1977	57,978	63.3	46,389	4,178	2,127	5,284
1978	63,333	68.2	51,273	4,455	2,407	5,198
1979	65,597	69.0	52,310	4,634	2,425	6,228
1980	71,292	73.6	56,885	5,222	2,637	6,548
1981	63,454	64.7	48,938	5,623	2,505	6,388
1982	64,679	64.9	49,826	5,516	2,515	6,822
1983	59,086	57.7	45,874	4,869	2,303	6,040

1/ Annual rate per 1,000 resident population, July 1.

Source: Hawaii Criminal Justice Data Center, from Police Department reports.

Table 134.-- ACTUAL OFFENSES KNOWN TO POLICE AND OFFENSES CLEARED BY ARREST OR OTHERWISE, BY CLASS OF OFFENSE, BY COUNTIES: 1983

[Arson, reclassified as a Part I offense effective 1979, is included as a Part II offense in this table]

County	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	Part I	Part II, except traffic	Part I	Part II, except traffic	Part I	Part II, except traffic
State total .	59,432	87,656	12,332	58,723	20.7	67.0
Honolulu	46,228	67,003	9,332	46,744	20.2	69.8
Hawaii	4,869	4,582	1,428	2,565	29.3	56.0
Kauai	2,303	2,770	540	1,356	23.4	49.0
Maui	6,032	13,301	1,032	8,058	17.1	60.6

1/ Data include prior year's offenses; percent cleared may thus exceed 100.0.

Source: Hawaii Criminal Justice Data Center, tabulation provided May 24, 1984.

Table 135.-- ACTUAL MAJOR OFFENSES KNOWN TO POLICE, FOR THE CITY AND COUNTY OF HONOLULU: 1973 TO 1983

Calendar year	Total Part I offenses	Murder; non-negligent manslaughter	Manslaughter (negligent)	Rape	Robbery
1973	35,275	36	50	150	663
1974	43,572	62	84	190	951
1975	43,612	58	99	161	1,037
1976	45,307	40	111	150	1,084
1977	46,389	45	94	177	1,086
1978	51,273	35	114	181	1,478
1979	52,310	49	120	225	1,555
1980	56,885	65	120	257	1,715
1981	48,938	40	97	239	1,311
1982	49,826	25	29	246	1,458
1983	46,807	46	29	263	1,263

Calendar year	Aggravated assault	Burglary	Larceny		Auto theft
			Total	Over $50	
1973	287	10,838	19,763	8,440	3,488
1974	301	13,040	24,269	10,183	4,675
1975	311	13,287	24,480	10,757	4,179
1976	356	13,509	25,793	11,977	4,264
1977	335	13,134	27,732	13,977	3,786
1978	303	13,712	31,037	16,610	4,413
1979	349	12,664	31,616	17,539	5,732
1980	384	13,705	35,446	20,195	5,193
1981	326	12,461	30,761	17,839	3,703
1982	381	12,241	31,731	17,897	3,715
1983	579	10,107	30,243	17,113	4,277

Source: Honolulu Police Department, Annual Statistical Report, 1973-1983.

Table 136.-- MAJOR OFFENSES REPORTED TO POLICE PER 100,000 POPULATION, BY RESIDENCE OF VICTIM, FOR OAHU, 1981-1982, AND KAUAI, 1978-1980

[Based on annual averages for Part I offenses, reported on Oahu for the 24-month period ended December 31, 1982 and on Kauai for the 32-month period ended August 1980. Resident victimization rates were based on resident population estimates; visitor victimization rates, on estimated average visitor census]

Offense	City and County of Honolulu, 1981-1982		County of Kauai, 1978-1980	
	Resident rates	Visitor rates	Resident rates	Visitor rates
All crimes ..	5,685.5	7,342.4	5,681.0	5,616.8
Violent crimes ...	233.0	296.2	228.0	200.0
Property crimes ..	5,452.5	7,046.2	5,453.0	5,416.8
Murder	3.7	1.5	7.5	0
Rape	27.5	30.5	22.6	62.1
Robbery	156.9	255.6	21.4	114.7
Assault	44.9	8.6	176.5	23.2
Burglary	1,407.3	2,045.4	1,722.9	959.3
Larceny	3,490.8	4,956.2	3,430.1	4,342.5
Auto theft 1/	554.4	44.6	300.0	115.0

1/ Oahu data include miscellaneous Part I offenses.

Source: Meda Chesney-Lind and Ian Y. Lind, Visitors As Victims: Crimes Against Tourists in Two Hawaii Counties (University of Hawaii, School of Social Work, Youth Development and Research Center, Research Report No. 293, February 1984), pp. 11a and 12a.

Table 137.-- ACTUAL PART I OFFENSES KNOWN TO POLICE AND PART I OFFENSES CLEARED BY ARREST OR OTHERWISE, FOR THE STATE AND OAHU: 1983

[Excludes arson, reclassified as a Part I offense effective 1979]

Type of offense	Actual offenses known to police		Number cleared by arrest or otherwise 1/		Percent cleared 1/	
	State total	Oahu only	State total	Oahu only	State total	Oahu only
All Part I offenses	59,432	46,228	12,332	9,332	20.7	20.2
Murder and non-neg. manslaughter	57	45	40	30	70.2	66.7
Manslaughter (neg.)	-	-	-	-	-	-
Rape	301	249	161	121	53.5	48.6
Robbery	1,330	1,243	473	424	35.6	34.1
Aggravated assault	891	599	483	290	54.2	48.4
Burglary	13,636	10,044	1,678	1,135	12.3	11.3
Larceny over $200	12,163	9,279	8,962	6,928	23.0	22.9
Larceny, $50-$200	10,013	7,773				
Larceny, under $50	16,744	13,143				
Auto theft	4,297	3,853	535	404	12.4	10.5

1/ Data include clearance of offenses reported in previous years; percent cleared may thus exceed 100.0.

Source: Hawaii Criminal Justice Data Center, tabulation provided May 24, 1984.

Table 138.-- PART I OFFENSES CLEARED BY ARREST OR OTHERWISE AND AGE OF PERSONS ARRESTED FOR PART I OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1973 TO 1983

Year	Part I offenses cleared 1/		Persons arrested for Part I offenses			
				Juveniles under 18 years		18 years of age and over
	Number	Percent	Total	Male	Female	
1973 ..	8,721	25	6,558	2,623	1,005	2,930
1974 ..	9,727	22	8,043	3,227	1,027	3,789
1975 ..	9,235	21	7,696	3,186	1,134	3,376
1976 ..	12,747	28	8,915	3,647	1,316	3,952
1977 ..	11,460	25	8,429	3,355	1,117	3,957
1978 ..	11,955	23	8,234	3,222	1,064	3,948
1979 ..	10,844	21	8,125	3,051	1,079	3,995
1980 ..	11,522	20	9,151	3,297	1,074	4,780
1981 ..	8,701	18	8,495	2,863	985	4,647
1982 ..	8,145	16	9,223	3,116	945	5,162
1983 ..	8,047	18	9,002	2,740	849	5,413

1/ Major (Part I) offenses cleared by arrest or otherwise, including prior years offenses.

Source: Honolulu Police Department, Annual Statistical Report, 1973-1983.

Table 139.-- PERSONS ARRESTED FOR PART I AND PART II OFFENSES, BY AGE AND SEX, FOR THE STATE AND OAHU: 1983

Age and sex	Arrested for Part I offenses 1/		Arrested for Part II offenses (except traffic) 2/	
	State total	Oahu only	State total	Oahu only
Total	11,520	9,149	29,205	22,511
Juveniles	4,450	3,596	6,318	4,603
Male	3,386	2,745	4,445	3,214
Female	1,064	851	1,873	1,389
Adults	7,070	5,553	22,887	17,908
Male	5,091	3,988	19,464	15,209
Female	1,979	1,565	3,423	2,699

1/ Includes negligent manslaughter but excludes arson.
2/ Includes arson but excludes negligent manslaughter.
Source: Hawaii Criminal Justice Data Center, tabulation provided May 24, 1984.

Table 140.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED (EXCLUSIVE OF AUTOMOBILES), FOR THE CITY AND COUNTY OF HONOLULU: 1973 TO 1983

Year	Value of property reported stolen ($1,000)	Value of stolen property recovered ($1,000)	Percent recovered
1973 ...	7,660.5	980.0	12.8
1974 ...	9,732.7	558.1	5.7
1975 ...	11,628.1	828.1	7.1
1976 ...	14,438.7	1,375.4	9.5
1977 ...	15,473.3	1,496.2	9.7
1978 ...	20,151.1	1,817.2	9.0
1979 ...	21,639.6	1,861.6	8.6
1980 ...	27,605.8	1,427.3	5.2
1981 ...	26,965.5	1,961.7	7.3
1982 ...	23,920.2	1,940.2	8.1
1983 ...	22,798.4	1,946.4	8.5

Source: Honolulu Police Department, Annual Statistical Report, 1973-1983.

Table 141.-- VALUE OF PROPERTY REPORTED STOLEN AND VALUE OF STOLEN PROPERTY RECOVERED, BY CATEGORY, FOR THE STATE AND OAHU: 1983

Type of stolen property	Value of property stolen ($1,000)	Value of stolen property recovered	
		Amount ($1,000)	Percent
All property stolen:			
State total	39,846.0	11,626.1	29.2
Oahu only	32,985.8	9,846.8	29.9
Locally stolen motor vehicles:			
State total	13,904.4	9,474.9	68.1
Oahu only	12,194.7	8,385.6	68.8
Other stolen property:			
State total	25,941.6	2,151.2	8.3
Oahu only	20,791.1	1,461.2	7.0

Source: Hawaii Criminal Justice Data Center, tabulation provided May 24, 1984.

Table 142.-- ESTIMATED DIRECT ANNUAL WHITE-COLLAR CRIME LOSSES: 1974

[In millions of dollars. Estimates were generally computed by applying various Hawaii-to-U.S. economic ratios to national estimates of white-collar crime losses]

Category	Losses
All categories	117.3
Bribery, kickbacks and payoffs	12.2
Consumer fraud	28.2
Business tax fraud	42.7
Pilferage	20.0
Embezzlement	12.2
Computer crime	2.0

Source: Michael S. Glass, University of Hawaii Law School, White Collar Crime in Hawaii (May 1976).

Table 143.-- MARIJUANA CONFISCATED BY AUTHORITIES, BY COUNTIES: 1982 AND 1983

County	Weight 1/ (tons)		Estimated value ($1,000)	
	1982	1983	1982	1983
State total	73.8	127.16	30,904.3	53,875
Hawaii	50.4	82.81	20,165.0	33,125
Maui	4.3	9.36	3,119.7	6,732
Honolulu	10.0	28.80	3,941.4	11,522
Kauai	9.1	6.19	3,678.2	2,478

1/ "Wet" unprocessed weight.

Source: Hawaii State Department of the Attorney General, Hawaii Criminal Justice Data Center, information compiled from county police departments.

Table 144.-- FINAL DISPOSITIONS OF ADULT FELONY AND MISDEMEANOR ARRESTS, BY COUNTIES: SEPTEMBER 1, 1979 TO AUGUST 31, 1980

Type of charge and disposition	State total	Honolulu	Hawaii	Kauai	Maui
FELONIES					
Arrests	2,726	2,178	250	110	188
Releases	2,325	1,894	212	81	138
Police 1/	1,926	1,675	158	27	66
Prosecutor	134	49	9	32	44
District Court	17	4	6	2	5
Circuit Court	248	166	39	20	23
Convictions	401	284	38	29	50
Non-prison sentence	310	204	31	27	48
Prison sentence	91	80	7	2	2
Percent convicted	14.6	13.0	15.2	26.4	26.6
Percent prison sentence	3.3	3.7	2.8	1.8	1.1
MISDEMEANORS					
Arrests	9,924	8,172	710	703	735
Releases	3,155	2,505	334	109	207
Police	482	273	142	17	50
Prosecutor	59	4	26	29	-
District Court	2,569	2,207	152	55	155
Circuit Court	45	21	14	8	2
Convictions	6,769	5,667	376	198	528
Percent convicted	68.2	69.3	53.0	64.5	71.8

1/ Releases at this level should not be construed to mean that police do not have enough evidence to charge. In many instances releases occur on advice of prosecutor due to large number of cases pending, to another agency, and pending further investigation and review.

Source: Hawaii Criminal Justice Statistical Analysis Center, Adult Arrest Dispositions in Hawaii, September 1, 1979-August 31, 1980 (January 1981), pp. 15, 17, 21 and 23.

Table 145.-- DISPOSITION OF ADULTS AND JUVENILES ARRESTED FOR PART I AND PART II OFFENSES, FOR THE CITY AND COUNTY OF HONOLULU: 1983

Age group and disposition	Part I offenses	Part II offenses
ADULTS		
Persons arrested	5,413	18,052
Released	946	1,603
Charged	4,457	16,449
Dispositions by district and circuit courts	2,542	8,884
Convicted	965	6,044
Fine	498	4,233
Jail	303	655
Probation, suspended sentence	164	1,156
Other convictions	-	-
Bail forfeitures	-	-
Discharged	1,483	2,576
Stricken N/P	94	264
JUVENILES		
Arrests	3,589	4,629
Released without charges	649	190
Counseled and released	1,291	1,428
Social agencies	-	26
Family Court	1,359	2,864

Source: Honolulu Police Department, Annual Statistical Report, 1983.

Table 146.-- CHILD ABUSE AND NEGLECT REPORTS: 1981 AND 1982

Year	Abuse		Neglect	
	Reports	Confirmed	Reports	Confirmed
1981	1,691	800	1,005	376
1982	1,829	919	1,162	478

Source: Hawaii State Department of Social Services and Housing, records.

Table 147.-- TAXABLE LEGAL SERVICES: 1977

Subject	All legal forms	Sole practi-tioners	Partner-ships	Professional service organizations
All establishments:				
Number	506	374	85	47
Receipts ($1,000)	68,671	15,821	40,569	12,281
Establishments with payroll:				
Number	322	200	78	44
Receipts ($1,000)	65,120	12,625	40,365	12,130
Operating expenses ($1,000)	38,393	6,732	20,359	11,302
Paid employees, mid-March	1,447	345	840	262
Associate lawyers	327	29	175	123
Paraprofessionals	82	26	47	9
All others	1,038	290	618	130
Sole practitioners and partners, mid-March	452	187	265	-

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-5, Legal Services (March 1981), tables 1 and 4.

Table 148.-- COURTS, JUDGES, MAGISTRATES, AND ATTORNEYS: 1983 AND 1984

[As of June 30]

Subject	1983	1984
Federal judges and magistrates: 1/		
U.S. Bankruptcy Court	1	1
U.S. District Court	3	3
State justices and judges: 2/		
Supreme Court	5	5
Intermediate Court of Appeals	3	3
Circuit Courts 3/	21	24
Assigned to Family Court	2	1
Assigned to Land Court	1	1
Assigned to Tax Appeal Court	1	1
District Courts 4/	25	29
Assigned to Family Court	7	7
Land Court	(5/)	(5/)
Tax Appeal Court	(5/)	(5/)
Attorneys licensed in Hawaii	2,788	2,963

1/ Full-time and part-time. In addition, 1 judge of the U.S. Court of Appeals maintains an office in Honolulu.

2/ Authorized full-time positions.

3/ Includes judges assigned to the Family Court, a division of the Circuit Courts. Also includes judges assigned to the Land Court and Tax Appeal Court, both of which are separate from the Circuit Courts. There are four Circuit Courts, convened in five locations.

4/ Includes judges assigned to the Family Court, a division of the Circuit Courts. There are four District Courts, convened in 24 locations.

5/ One Circuit Court judge assigned on a part-time basis.

Source: Office of the Clerk, U.S. District Court, records; Office of the Clerk, U.S. Bankruptcy Court, records; Office of the Administrative Director of the Courts, State Judiciary, records.

Table 149.-- UNITED STATES DISTRICT COURT CASES: 1981 TO 1983

[Years ended June 30]

Subject	1981	1982	1983
Civil cases:			
Commenced	595	636	1,136
Terminations	518	685	715
Pending, end of period	1,069	1,020	1,441
Criminal cases:			
Commenced (including transfers)	1,540	1,947	2,408
Terminations	1,438	1,964	1,924
Pending, end of period	592	575	1,059
Bankruptcy:			
Commenced, total	781	788	677
Business	232	257	266
Nonbusiness	546	527	411
Terminations	418	601	722
Pending, end of period	1,391	1,578	2,243

Source: Administrative Office of the United States Courts, Annual Report of the Director for 1981, 1982, and 1983.

Table 150.-- STATE JUDICIARY TERMINATIONS: 1974 TO 1984

[Fiscal years ended June 30]

Court and type of case	1974	1975	1976	1977	1978	1979
All courts, total ..	592,973	604,176	623,453	685,282	719,773	818,750
Supreme Court	383	405	520	563	729	876
Civil cases	88	69	97	97	95	111
Criminal cases	46	65	50	41	68	149
Other proceedings	249	271	373	425	566	616
Circuit Courts proper ...	7,686	9,334	8,094	8,626	9,151	8,744
Civil cases	2,575	3,870	3,462	3,732	4,073	3,367
Criminal cases	1,827	2,097	1,638	1,532	1,716	1,962
Part I offenses	741	885	654	766	764	837
Part II offenses	1,086	1,212	984	766	952	1,125
Other proceedings	3,284	3,367	2,994	3,362	3,362	3,415
Family Courts	16,310	17,015	17,256	19,010	20,194	20,952
Civil cases	7,074	6,624	7,396	8,538	9,314	10,277
Criminal cases	21	31	45	24	50	40
Other proceedings	9,215	10,360	9,815	10,448	10,830	10,635
District Courts	568,594	577,422	597,583	657,083	689,699	788,178
Civil cases	12,831	12,232	10,953	10,330	10,200	11,382
Traffic cases	520,964	524,345	545,340	609,323	640,468	733,196
Other violations	17,667	20,733	24,881	18,926	18,888	22,096
Criminal cases	17,132	20,112	16,409	18,504	20,143	21,504
Part I offenses	3,005	3,781	2,515	3,254	3,368	3,651
Part II offenses	14,127	16,331	13,894	15,250	16,775	17,853

Continued on next page.

Table 150.-- STATE JUDICIARY TERMINATIONS: 1974 TO 1984 -- Con.

Court and type of case	1980	1981	1982	1983	1984
All courts, total ..	760,231	890,048	946,347	999,447	930,586
Supreme Court 1/	1,023	1,158	1,434	1,483	1,817
Civil cases	75	116	168	250	174
Criminal cases	150	136	140	164	228
Other proceedings	798	906	1,126	1,069	1,415
Intermediate Court of Appeals 2/	42	350	298	222	183
Civil cases	13	157	136	91	97
Criminal cases	21	45	27	35	23
Other cases	8	148	135	96	63
Circuit Courts proper ...	10,581	8,778	9,882	10,304	21,573
Civil cases	3,871	3,627	4,401	4,732	13,918
Criminal cases	2,279	1,853	2,145	1,865	4,383
Part I offenses	844	788	937	737	1,810
Part II offenses	1,435	1,065	1,208	1,128	2,573
Other proceedings	4,431	3,298	3,336	3,707	3,272
Family Courts	21,525	20,442	21,179	22,176	27,583
Civil cases	10,510	9,252	10,121	9,619	12,722
Criminal cases	81	45	47	45	233
Other proceedings	10,934	11,145	11,011	12,512	14,628
District Courts	727,060	859,320	913,554	965,262	879,430
Civil cases	11,894	15,992	22,597	18,926	18,920
Traffic cases	669,033	792,767	841,844	897,713	811,816
Other violations	22,696	24,401	24,066	23,351	20,803
Criminal cases	23,437	26,160	25,047	25,272	27,891
Part I offenses	3,513	4,426	4,275	5,259	5,340
Part II offenses	19,924	21,734	20,772	20,013	22,551

1/ Data exclude cases transferred to the Intermediate Court of Appeals: 281 in 1980, 121 in 1981, 132 in 1982, 94 in 1983, and 105 in 1984.

2/ The Intermediate Court of Appeals was installed on April 18, 1980. Data exclude cases transferred back to the Supreme Court: 1 in 1981, 4 in 1982, 1 in 1983, and 1 in 1984.

Source: Hawaii State Judiciary, Office of the Administrative Director of the Courts, records.

Table 151.-- STATE JUDICIARY CASES FILED, BY TYPE OF ACTION: 1983 AND 1984

[Years ended June 30]

Court and type of action	1983	1984
Supreme Court, total	1,535	1,906
Primary cases	518	572
Appeals	485	534
Original proceedings	33	38
Supplemental proceedings	1,017	1,334
Intermediate Court of Appeals, total	179	158
Primary cases	91	101
Appeals	91	100
Original proceedings	-	1
Supplemental proceedings	88	57
Circuit Courts Proper, total	17,086	14,453
Primary proceedings	15,349	13,315
Civil actions	8,921	6,960
Probate proceedings	1,726	1,738
Guardianship proceedings	347	356
Miscellaneous proceedings	1,135	1,280
Criminal actions	3,220	2,981
Part I offenses	1,308	1,071
Part II offenses	1,912	1,910
Supplemental proceedings	1,737	1,138
Family Courts, total	24,597	27,644
Primary proceedings, referrals	20,829	22,250
Marital actions, proceedings	7,579	7,749
Adoption proceedings	800	759
Paternity/parental proceedings	1,214	1,398
Miscellaneous proceedings	2,533	3,011
Criminal actions	127	157
Adults' referrals	542	871
Children and minors' referrals	8,034	8,305
Supplemental proceedings	3,768	5,394
District Court, total	966,111	919,460
Civil	18,373	19,607
Regular	13,491	14,219
Small claims	4,882	5,388
Traffic	897,441	847,327
Moving - arrest and citation	194,055	190,216
Non-moving	135,156	134,406
Parking	568,230	522,705
Other violations	23,353	24,153
Criminal actions	26,944	28,373
Part I offenses	5,576	5,434
Part II offenses	21,368	22,939

Source follows next table.

Table 152.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 AND 1984

[Years ended June 30]

Court and type of termination	1983	1984
Supreme Court, total	1,577	1,922
Opinion filed	279	220
Dismissal motion granted	20	31
Withdrawn or discontinued	99	100
Transferred	94	105
Other disposition	1,085	1,466
Intermediate Court of Appeals, total	223	184
Opinion filed	119	115
Dismissal motion granted	1	1
Withdrawn or discontinued	9	7
Transferred	1	1
Other disposition	93	60
Circuit Courts Proper, total	10,304	21,573
No service	279	991
No answer	626	965
No statement of readiness	64	78
Dismissal: Notice of	718	1,630
Stip. for	2,052	6,052
By judge	557	1,646
Nonjury: Trial	176	379
Trial not completed	15	17
Jury: Verdict	291	586
Trial not completed	15	41
No trial held	1,061	2,481
Hearings: Contested	385	246
Uncontested	1,527	1,957
Others	2,538	4,504
Family Courts, total	22,176	27,583
Nolle prosequi	15	23
Dismissal	5	89
Nonjury: Trial	43	67
Trial not completed	5	2
Jury: Verdict	4	-
Trial not completed	-	1
No trial held	1,184	1,083
Hearings: Contested	4,456	6,346
Uncontested	7,432	8,957
Counseling service	3,447	4,598
Others	5,585	6,417

Continued on next page.

Table 152.-- STATE JUDICIARY CASE TERMINATIONS, BY TYPE: 1983 AND 1984 -- Con.

Court and type of termination	1983	1984
District Court, total	965,262	879,430
Felonies	1,531	1,649
Stricken or discharged	299	381
By commitment to Grand Jury	629	140
By commitment to Circuit Court ..	603	1,128
Misdemeanors	23,741	26,242
By discharge or dismissal	6,822	7,405
By nolle prosequi	1,756	1,459
Stricken	1,544	1,499
By bail forfeiture	1,758	2,278
By commitment to Circuit Court ..	524	382
By conviction	11,337	13,219
Civil cases	18,926	18,920
By discontinuance or dismissal ..	7,776	7,392
By default or confession	9,665	10,689
By trial	1,386	720
By commitment to Circuit Court ..	102	119
Traffic and other violations	921,064	832,619
By discontinuance or dismissal ..	-	9
By discharge or dismissal	126,496	114,989
By nolle prosequi	21,668	19,840
Stricken	71,695	61,563
By bail forfeiture	559,093	516,075
By commitment to Circuit Court ..	27	73
By conviction	142,085	120,070

Source: The Judiciary, State of Hawaii, Annual Report, July 1, 1982 to June 30, 1983, Statistical Supplement, tables 1A, 1B, 7, 17, and 22; The Judiciary, State of Hawaii, Annual Report, July 1, 1983 to June 30, 1984, Statistical Supplement, tables 1A, 1B, 7, 17, and 22.

Table 153.-- INMATES PRESENT IN STATE CORRECTIONAL FACILITIES: ANNUAL AVERAGES, 1974 TO 1984

[For fiscal years ended June 30. Excludes county facilities prior to their transfer to State control. Halawa Jail on Oahu, Hawaii County Jail, and Maui County Jail became State correctional facilities on July 1, 1975; Kauai County Jail became a State facility on June 20, 1977]

Year	All categories	Adult facilities 1/			Juvenile facilities 2/	
		Felons	Misdemeanants 3/	Not sentenced	Boys	Girls
1974	(NA)	302	(NA)	(NA)	62	17
1975	(NA)	312	(NA)	(NA)	60	16
1976	530	326	47	100	46	11
1977	544	319	39	117	56	13
1978	592	351	48	129	54	10
1979	698	412	48	170	61	7
1980	817	480	74	177	76	10
1981	952	561	82	210	88	11
1982	1,155	681	86	295	85	8
1983	1,402	812	120	391	73	6
1984	1,652	974	166	435	71	6

NA Not available.

1/ As of 1984, data include eight separate facilities: Oahu, Hawaii, Kauai, and Maui Community Correctional Centers, Kulani Correctional Facility, Halawa High Security Facility, Hawaii Women's Correctional Facility, and Kamehameha Conditional Release Center.

2/ Hawaii Youth Correctional Facility.

3/ Includes felon probationers serving jail terms under one year.

Source: Hawaii State Intake Service Center, information submitted December 28, 1984.

Table 154.-- MEDIAN AGES AND AVERAGE SENTENCES OF FELON POPULATION: 1976 TO 1982

[These data cover only those felons under the jurisdiction of the State's correctional facilities. These include long-term felons and those in hospitals, in mainland facilities, and on community release status. Parolees are not included. Average sentence calculations include life with parole sentences]

Year ended June 30	Median age (years) 1/		Average sentences (months)				
			Felons admitted		Felons released		
	At admission	Currently	Minimum	Maximum	Minimum	Maximum	Time served
1976	25.7	26.2	43.8	80.5	31.5	126.3	30.2
1977	26.5	25.4	55.9	102.2	32.7	120.7	32.6
1978	25.3	27.6	52.6	99.1	38.5	108.0	35.8
1979	26.5	26.6	59.8	119.0	34.8	89.2	36.9
1980	26.1	25.3	69.4	151.3	53.7	113.6	46.4
1981	27.0	27.8	40.7	173.5	55.7	124.9	47.4
1982	26.8	27.3	38.8	135.8	58.8	131.6	52.2

1/ For felon population on June 30.

Source: State Department of Social Services and Housing, State Intake Service Centers, Trends of the Felon Population: Adults Committed to Correctional Facilities, FY 1974-75 to FY 1981-82, Report No. 83-001 (January 1983), pp. I-4 to I-7.

Table 155.-- HAWAII PAROLING AUTHORITY STATISTICAL SUMMARY: 1982 AND 1983

[Years ended June 30]

Item	1982	1983
Number of parolees, June 30	416	438
Parolees in Hawaii	159	271
Parolees outside Hawaii 1/	142	54
Absconders	115	113
Minimum imprisonment terms fixed	597	877
Number of persons for whom terms fixed	247	280
Persons considered for parole	139	184
Paroles granted	52	79
Paroles denied	68	74
Persons reconsidered for minimum terms previously set	44	36
Terms reset	1	2
Terms reset/parole granted	2	3
Terms undisturbed	30	28
Deferred reconsideration	11	3
Parole violation hearings	35	19
Parole revocations	26	13
Continued on parole	2	2
Deferred decision/hearing	5	4
Pardon investigations	19	11
Persons pardoned	7	9
Persons whose paroles were suspended because their whereabouts unknown	5	12
Status reports	112	62
Discharges	50	48
Discharged from parole	32	28
Final discharge	15	17
Deceased	3	3

1/ 1982 figure revised from Data Book 1983, table 126.

Source: Hawaii State Department of Social Services and Housing, Annual Report of the Hawaii Paroling Authority.

Table 156.-- LEGAL EXECUTIONS: 1826 TO 1983

[Capital punishment was abolished in Hawaii by legislation approved on June 4, 1957. For annual statistics, explanatory footnotes, and detailed source citations, see The State of Hawaii Data Book 1982, table 113, pp. 131-132]

Period	Persons executed	
	Total	Civilians
1826-1899 1/	31	31
1900-1931	(NA)	34
1932-1947 2/	11	8
1948-1983	-	-

NA Not available.

1/ Data complete for 48 years, possibly incomplete for 2, and lacking for 24.

2/ The most recent recorded civilian execution occurred in 1944; the most recent military execution, in 1947.

Source: The State of Hawaii Data Book 1982, table 113.

Section 5

GEOGRAPHY AND ENVIRONMENT

This section relates to land and water areas, physical geography, climate, air and water quality, noise, and other geographic and environmental measurements of Hawaii. Most statistics on land use and ownership, however, appear in section 6.

The State consists of eight major islands and 124 minor islands with a total land area of 6,425 square miles and a general coastline of 750 miles. Honolulu is 214 miles from Hilo, 1,367 miles from Kure Atoll (the westernmost end of the State), 2,397 miles from San Francisco, and 4,829 miles from Washington, D.C. The highest peak in the State is Mauna Kea, 13,796 feet above sea level; the longest stream is Kaukonahua Stream, Oahu, 33 miles in length; the biggest lake is Halalii, on Niihau, 841 acres; and the highest named waterfall is Kahiwa, Molokai, a 1,750-foot cascade. Various measures of air pollution, such as suspended particulate matter, indicate that Honolulu is one of the cleanest cities in the nation. There is also relatively little water pollution: 35 major beaches surveyed in 1983 were found to have fecal coliform levels per 100 ml. ranging from 2.0 to 21.1, and all 35 were within EPA standards. More than 1,100 [illegible]es, subspecies, and varieties of native flora were endangered, thre[illegible], or extinct, according to a 1977 survey. Climatically, Hawaii is marked by remarkably balmy temperatures and wide variations in rainfall. The all-time temperature range at Honolulu International Airport, for example, was from 53° to 92°F. Average precipitation, however, ranges from less than 10 inches at Kawaihae and the summit of Mauna Kea to 451 inches atop Waialeale. The longest volcanic eruption in Island history lasted 867 days, the worst earthquake attained 7.5 on the Richter scale, and the highest tsunami wave reached 56 feet. Water withdrawn for use in 1980 averaged 2.9 billion gallons per day, compared with 2.8 billion in 1975 and 2.7 billion in 1970. Among 31 neighborhoods on Oahu, median noise levels in 1981-1982 ranged from 37 decibels (in Mililani) to 57 decibels (in Pawaa).

Important sources of data include the U.S. Geological Survey, National Ocean Survey, National Weather Service, U.S. Bureau of the Census Geography Division, the Division of Water and Land Development of the State Department of Land and Natural Resources, the State Department of Health, and the University of Hawaii Institute of Geophysics. Detailed information is given in Atlas of Hawaii, published by the University Press of Hawaii in 1983. National data are reported in Statistical Abstract of the United States: 1984, Section 7.

Table 157.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES

Place	Distance from Honolulu	
	Statute miles	Kilometers
Hawaiian Islands:		
Cape Kumukahi, Hawaii	236	380
Hilo, Hawaii	214	344
Ka Lae (South Cape), Hawaii	221	356
Kailua, Kona, Hawaii	168	270
Kahului, Maui	98	158
Lanai Airport	72	116
Molokai Airport	54	87
Lihue, Kauai	103	166
Puuwai, Niihau	152	245
Nihoa	283	455
Necker Island	520	837
French Frigate Shoals	556	895
Gardner Pinnacles	688	1,107
Maro Reef	851	1,369
Laysan Island	936	1,506
Lisianski Island	1,065	1,714
Pearl and Hermes Atoll	1,208	1,944
Midway Islands	1,309	2,106
Kure Atoll	1,367	2,200
Other Pacific locations:		
Apra Harbor, Guam	3,806	6,124
Auckland, New Zealand	4,393	7,068
Avarua, Rarotonga	2,950	4,750
Funafuti, Tuvalu	2,550	4,106
Hong Kong	5,541	8,915
Johnston Atoll	820	1,319
Kingman Reef	1,073	1,726
Kiritimati (Christmas Island), Kiribati	1,344	2,163
Kolonia, Ponape	3,087	4,967
Koror, Palau	4,593	7,390
Kwajalein, Marshall Islands	2,443	3,931
Majuro, Marshall Islands	2,271	3,654
Manila, Philippines	5,293	8,516
Nuku'alofa, Tongatapu	3,165	5,096
Nuku Hiva, Marquesas Islands	2,400	3,864
Pago Pago, American Samoa	2,606	4,193

Continued on next page.

Table 157.-- GREAT CIRCLE DISTANCES BETWEEN HONOLULU INTERNATIONAL AIRPORT AND SPECIFIED PLACES -- Con.

Place	Distance from Honolulu	
	Statute miles	Kilometers
Other Pacific locations, con.:		
Palmyra Atoll	1,101	1,772
Papeete, Tahiti	2,741	4,410
Saipan, Northern Mariana Islands	3,704	5,960
Suva, Fiji	3,159	5,083
Sydney (Port Jackson), Australia	5,070	8,158
Tokyo, Japan	3,847	6,190
Wake Island	2,294	3,691
North and South America:		
Anchorage, Alaska	2,781	4,475
Cape Horn, Chile	7,457	11,998
Chicago, Illinois	4,179	6,724
Cristobal, Canal Zone	5,214	8,389
Lima, Peru	5,950	9,580
Los Angeles, California	2,557	4,114
Miami, Florida	4,856	7,813
New York, New York	4,959	7,979
Portland, Oregon	2,595	4,175
San Diego, California	2,610	4,199
San Francisco, California	2,397	3,857
Seattle, Washington	2,679	4,311
Vancouver, B.C.	2,709	4,359
Victoria, B.C.	2,668	4,293
Tijuana, Mexico	2,616	4,209
Washington, D.C.	4,829	7,770
London, England	7,226	11,627
Bombay, India	8,010	12,888
Ghanzi, Botswana 1/	12,417	19,979
Equator, due south of Honolulu	1,470	2,367
North Pole	4,740	7,631
South Pole	7,660	12,333

1/ Ghanzi, Botswana, is Honolulu's antipode, that is, the point precisely opposite to it on the globe.

Source follows next table.

Table 158.-- GREAT CIRCLE DISTANCES FROM HILO AND KURE ATOLL

Places	Great circle distance	
	Statute miles	Kilometers
Hilo to --		
Honolulu, Oahu	214	344
Los Angeles, California	2,447	3,937
San Francisco, California	2,315	3,725
Kure Atoll to --		
Cape Kumukahi, Puna, Hawaii 1/	1,523	2,451
Honolulu, Oahu	1,367	2,200
Log Point, Elliot Key, Florida 2/	5,852	9,416
Tokyo, Japan	2,486	4,000
West Quoddy Head, Maine	5,788	9,313

1/ Cape Kumukahi and Kure Atoll are the points farthest apart in the Hawaiian Archipelago and State of Hawaii.

2/ Log Point and Kure Atoll are the points farthest apart in the fifty states.

Source: U. S. Department of the Interior, Geological Survey, Elevations and Distances in the United States (1970), and distance computations prepared for the Department of Planning and Economic Development.

Table 159.-- WIDTHS AND DEPTHS OF CHANNELS

Channel 1/	Width 2/		Depth 3/	
	Statute miles	Kilometers	Feet	Meters
Alenuihaha	29.6	47.6	6,810	2,076
Alalakeiki	6.7	10.8	822	251
Kealaikahiki	17.8	28.6	1,086	331
Auau	9.5	15.3	252	77
Kalohi	9.2	14.8	540	165
Pailolo	8.8	14.2	846	258
Kaiwi	25.8	41.5	2,202	671
Kauai	72.1	116.0	10,890	3,319
Kaulakahi	17.2	27.7	3,570	1,088
Niihau-Kaula	21.5	34.6	5,364	1,635
Niihau-Nihoa	133.9	215.5	14,550	4,435
Nihoa-Necker I.	179.6	289.0	12,600	3,840
Necker I.-French Frigate Shoals	100.3	161.4	12,780	3,895
French Frigate Shoals-Gardner Pinnacles	137.0	220.5	11,448	3,489
Gardner Pinnacles-Maro Reef	155.5	250.3	12,300	3,749
Maro Reef-Laysan I.	65.9	106.1	8,280	2,524
Laysan I.-Lisianski I.	137.4	221.1	16,830	5,130
Lisianski I.-Pearl and Hermes Atoll	162.6	261.7	17,400	5,304
Pearl and Hermes Atoll-Midway Islands	86.9	139.9	15,840	4,828
Midway Islands-Kure Atoll	57.1	91.9	12,960	3,950

1/ Listed in geographic order, from east to west. The channels between major islands were measured between the following points:
Alenuihaha: Upolu Pt., Hawaii, to Puhilele Pt., Maui;
Alalakeiki: Lae o ka Ule, Kahoolawe, to Nukuele Pt., Maui;
Kealaikahiki: Makaalae, Kahoolawe, to Kamaiki Pt., Lanai;
Auau: Kikoa Pt., Lanai, to Lahaina, Maui;
Kalohi: Wahie Pt., Lanai, to Kamalo, Molokai;
Pailolo: Lipoa Pt., Maui, to Pohakuloa, Molokai;
Kaiwi: Ilio Pt., Molokai, to Makapuu Pt., Oahu;
Kauai: Kaena Pt., Oahu, to Kamilo Pt., Kauai;
Kaulakahi: Mana Pt., Kauai, to Kaunuopou, Niihau.

2/ Width measured in statute miles between designated points on National Ocean Survey and Coast and Geodetic Survey charts. Width in kilometers calculated from miles (1 mile = 1.60934 km.).

3/ Depths given are the deepest soundings noted at or near the line joining the two designated points, on National Ocean Survey and Coast and Geodetic Survey charts. Depths measured in fathoms and converted to feet and meters (1 fathom = 6 feet = 1.8288 meters).

Source: Compiled by Lee S. Motteler, Pacific Scientific Information Center, Bernice P. Bishop Museum, in November 1980.

Table 160.-- GENERAL COASTLINE AND TIDAL SHORELINE OF COUNTIES AND ISLANDS

County and island	General coastline 1/		Tidal shoreline 2/	
	Statute miles	Kilo-meters 3/	Statute miles	Kilo-meters 3/
State total	750	1,207	1,052	1,693
Counties:				
Hawaii	266	428	313	504
Maui, including Kalawao	210	338	343	552
Honolulu	137	220	234	377
Kauai	137	220	162	261
Islands: 4/				
Hawaii	266	428	313	504
Maui	120	193	149	240
Kahoolawe	29	47	36	58
Lanai	47	76	52	84
Molokai	88	142	106	171
Oahu	112	180	209	336
Kauai	90	145	110	177
Niihau	45	72	50	80
Kaula	2	3	2	3
Northwestern Hawaiian Islands 5/ ..	25	40	25	40
Nihoa	3	5	3	5
Necker Island	2	3	2	3
French Frigate Shoals	6	10	6	10
Laysan Island	6	10	6	10
Lisianski Island	3	5	3	5
Kure Atoll	5	8	5	8

1/ Figures are lengths of general outline of seacoast. Data for the four islands of Maui County are not consistent with the reported county total.

2/ Shoreline of outer coast, offshore islands, bays, rivers, and creeks is included to the head of tidewater or to a point where tidal waters narrow to a width of 100 feet.

3/ Derived from data expressed in statute miles; independently rounded and accordingly may not add exactly to indicated totals and subtotals. 1 mi. = 1.609 km.

4/ Data are not available for five minor islands: Molokini, Lehua, Gardner Pinnacles, Maro Reef, and Pearl and Hermes Atoll.

5/ Excludes the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii. Midway has a general coastline of 20 miles and a tidal shoreline of 33 miles.

Source: U.S. Department of Commerce, National Ocean Survey, The Coastline of the United States (1975) and records.

Table 161.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982

County or island	Square miles Total	Land 2/	Inland water 3/
State total	6,470.8	6,425.2	45.6
Counties: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui	1,171.0	1,161.6	9.4
Kalawao	14.3	13.3	1.0
Honolulu	620.5	596.3	24.2
Kauai	629.8	619.8	10.0
Islands: 4/			
Hawaii	4,035.2	4,034.2	1.0
Maui 5/	734.5	728.6	5.9
Kahoolawe	45.9	45.0	0.9
Lanai	141.2	140.4	0.8
Molokai	263.7	260.9	2.8
Oahu	617.6	593.6	24.0
Kauai	558.2	549.4	8.8
Niihau and Lehua	71.1	70.0	1.1
Kaula	0.4	0.4	-
Northwestern Hawaiian Islands 6/	2.910	2.690	0.220
Nihoa	0.238	0.238	-
Necker Island	0.105	0.105	-
French Frigate Shoals	0.081	0.081	-
Gardner Pinnacles	0.011	0.011	-
Maro Reef	Awash	Awash	Awash
Laysan Island	1.454	1.234	0.220
Lisianski Island	0.586	0.586	-
Pearl and Hermes Atoll	0.106	0.106	-
Kure Atoll	0.329	0.329	-

Continued on next page.

Table 161.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

County or island	Square kilometers 1/		Acres 1/	
	Total	Land 2/	Total	Land 2/
State total	16,759.3	16,641.2	4,141,312	4,112,128
Counties: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui	3,032.9	3,008.5	749,440	743,424
Kalawao	37.0	34.4	9,152	8,512
Honolulu	1,607.1	1,544.4	397,120	381,632
Kauai	1,631.2	1,605.3	403,072	396,672
Islands: 4/				
Hawaii	10,451.1	10,448.5	2,582,528	2,581,888
Maui 5/	1,902.3	1,887.1	470,080	466,304
Kahoolawe	118.9	116.5	29,376	28,800
Lanai	365.7	363.6	90,368	89,856
Molokai	683.0	675.7	168,768	166,976
Oahu	1,599.6	1,537.4	395,264	379,904
Kauai	1,445.7	1,422.9	357,248	351,616
Niihau and Lehua	184.1	181.3	45,504	44,800
Kaula	1.0	1.0	256	256
Northwestern Hawaiian Islands 6/	7.5	7.0	1,862	1,722
Nihoa	0.6	0.6	152	152
Necker Island	0.3	0.3	67	67
French Frigate Shoals	0.2	0.2	52	52
Gardner Pinnacles	0.0	0.0	7	7
Maro Reef	Awash	Awash	Awash	Awash
Laysan Island	3.8	3.2	931	790
Lisianski Island	1.5	1.5	375	375
Pearl and Hermes Atoll	0.3	0.3	68	68
Kure Atoll	0.9	0.9	211	211

Footnotes and source on next page.

Table 161.-- LAND AND WATER AREA OF COUNTIES AND ISLANDS: 1982 -- Con.

1/ Areas in square kilometers and acres were calculated directly from the figures shown for square miles; these equivalents were independently rounded, and hence may not add exactly to the indicated totals and subtotals. 1 square mile = 640 acres = 2.58999 square kilometers.

2/ Dry land and land temporarily or partially covered by water, as marshland, swamps, etc.; streams and canals under one-eighth statute mile wide; and lakes, reservoirs, and ponds under 40 acres of area.

3/ Permanent inland water surface, such as lakes, reservoirs, and ponds having 40 acres or more of area; streams, sloughs, estuaries, and canals one-eighth statute mile or more in width; deeply indented embayments and sounds, and other coastal waters behind or sheltered by headlands or islands separated by less than 1 nautical mile of water, and islands having less than 40 acres of area.

4/ Because of rounding, island figures may not add to county figures.

5/ Molokini, offshore of Maui, not measured; other sources give the area of Molokini as 18.6 acres (0.03 square miles or 0.075 square kilometers).

6/ Exclusive of the Midway Islands, which are part of the Hawaiian Archipelago but not legally part of the State of Hawaii.

Source: Unpublished data supplied by the Geography Division, U.S. Bureau of the Census, May 5, 1983, as cited in the Hawaii State Department of Planning and Economic Development, Remeasurements of the Area of Hawaii, 1982 (Statistical Memorandum 83-6, May 18, 1983).

Table 162.-- MAJOR AND MINOR ISLANDS IN THE HAWAIIAN ARCHIPELAGO

Classification	Number of islands: Total	Number of islands: Inhabited, 1980 1/	Land area (square miles)
All named islands	137	15	6,427.0
Major islands	8	7	6,419.4
Named minor islands 2/	129	8	7.6
Offshore of major islands	96	4	2.6
Northwestern Hawaiian Islands 3/	33	4	4.9
Part of State	28	3	2.9
Not part of State (Midway Islands)	5	1	2.0

1/ For populations, see present volume, table 5.

2/ For individual data, see DPED Report GN-6, pp. 3-7.

3/ The 33 islets are in 10 clusters.

Source: Hawaii State Department of Planning and Economic Development, Geographic Names Approved, Second Quarter 1969 (Report GN-6, July 8, 1969), p. 8; data for Midway Islands supplied by Lee S. Motteler, Bishop Museum.

Table 163.-- MAJOR SUMMITS

[Elevation of the highest point on each island and other important peaks]

Island and mountain	Elevation	
	Feet	Meters
Hawaii:		
Mauna Kea 1/	13,796	4,205
Mauna Loa 1/	13,679	4,169
Hualalai	8,271	2,521
Kaunu o Kaleioohie 2/	5,480	1,670
Kilauea (Uwekahuna)	4,093	1,248
Kilauea (Halemaumau Rim)	3,660	1,116
Kahoolawe:		
Puu Moaulanui 3/	1,483	452
Puu Moaulaiki	1,434	437
Molokini	160	49
Maui:		
Haleakala (Red Hill)	10,023	3,055
Haleakala (Kaupo Gap)	8,201	2,500
Puu Kukui	5,788	1,764
Iao Needle	2,250	686
Lanai:		
Lanaihale	3,370	1,027
Molokai:		
Kamakou	4,961	1,512
Olokui	4,606	1,404
Kaunuohua	4,535	1,382
Kalaupapa Lookout	1,600	488
Mauna Loa (Kukui)	1,430	436
Oahu:		
Kaala	4,017	1,224
Puu Kalena	3,504	1,068
Konahuanui 4/	3,150	960
Tantalus	2,013	614
Olomana	1,643	501
Koko Crater (Kohelepelepe)	1,208	368
Nuuanu Pali Lookout	1,186	361
Diamond Head	760	232
Koko Head	642	196
Punchbowl	500	152

Continued on next page.

Table 163.-- MAJOR SUMMITS -- Con.

Island and mountain	Elevation	
	Feet	Meters
Kauai:		
Kawaikini	5,243	1,598
Waialeale	5,148	1,569
Namolokama Mountain	4,421	1,348
Kalalau Lookout	4,120	1,256
Haupu	2,297	700
Sleeping Giant (Nonou)	1,241	378
Niihau:		
Paniau	1,281	390
Lehua	699	213
Kaula	550	168
Nihoa:		
Millers Peak	910	277
Necker Island:		
Summit Hill	277	84
French Frigate Shoals:		
La Perouse Pinnacles	135	41
Gardner Pinnacles	190	58
Maro Reef	Awash	Awash
Laysan Island	35	11
Lisianski Island	20	6
Pearl and Hermes Atoll	10	3
Midway Islands 5/	12	4
Kure Atoll	20	6
Kingman Reef 5/	3	1
Palmyra Atoll 5/	6	2
Johnston Atoll: 5/		
Sand Island	15	5

1/ The adjacent ocean floor has an average depth of 2,800 fathoms and a maximum depth of 3,045 fathoms. Thus, Mauna Kea and Mauna Loa rise respectively 30,596 feet and 30,479 feet above their submarine bases as calculated from average depths, and respectively 32,066 and 31,499 feet above as calculated from maximum depths. So measured, Mauna Kea and Mauna Loa are the world's tallest mountains.

2/ Kohala on earlier maps.

3/ Lua Makika on earlier maps.

4/ Two distinct peaks. The lower one has an elevation of 3,105 feet.

5/ Not part of the State of Hawaii.

Source on next page.

Table 163.-- MAJOR SUMMITS -- Con.

Source: U.S. National Cartographic Information Center, data provided October 11, 1978; U.S. Geological Survey topographic maps; E. D. Baldwin, 1883 Molokini figure on Hawaiian Government Survey Reg. Map No. 1276; National Geodetic Survey 1969 figure for Kaala, provided by U.S. Geological Survey, Honolulu office, July 23, 1984; U.S.S. Tanager survey, 1923 (for Pearl and Hermes Atoll); A. B. Amerson, Jr., and P. C. Shelton, The Natural History of Johnston Atoll (The Smithsonian Institution, Dec. 1976). Data compiled with assistance of Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum.

Table 164.-- LAND AND WATER AREA WITHIN THE FISHERY CONSERVATION ZONE

[Land and water area within the 200 nautical mile Fishery Conservation Zone surrounding the Hawaiian Archipelago]

Category	Square nautical miles	Square statute miles	Square kilometers
Total	634,023	839,623	2,174,626
Land area	4,852	6,425	16,641
Water area	629,171	833,198	2,157,985

Source: Charles E. Harrington, Chief Geographer, Marine Surveys and Maps, National Ocean Survey, National Oceanic and Atmospheric Administration, U.S. Department of Commerce, information supplied September 15, 1978.

Table 165.-- MAJOR STREAMS, BY ISLANDS

Island	Feature or stream	Length or ave. discharge
Longest water feature (miles):		
Hawaii	Wailuku River	32.0
Maui	Kalialinui-Waiale Gulch	18.0
Kahoolawe	Ahupu Gulch	4.0
Lanai	Maunalei-Waialala Gulch	12.9
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream (So. Fork)	33.0
Kauai	Waimea River-Poomau Stream	19.5
Niihau	Keanaulii-Puniopo Valley	5.9
Largest perennial stream (miles): 1/		
Hawaii	Wailuku River	22.7
Maui	Palikea Stream	7.8
Molokai	Wailau-Pulena Stream	6.5
Oahu	Kaukonahua Stream	30.0
Kauai	Waimea River	19.7
Streams with greatest average discharge (million gal./day):		
Hawaii	Wailuku River	185
Maui	Iao Stream	54
Molokai	Wailau Stream	30
Oahu	Waikele Stream	25
Kauai	Hanalei River	140

1/ Estimated on basis of drainage area rather than stream runoff. Other major streams include Wailoa River, Hawaii (1/2-mile long); Honokohau Stream (9.4 miles long) and Iao Stream (5), both on Maui; Halawa Stream (6.4), Waikolu Stream (4.7), and Pelekunu (2.3), all on Molokai; Waikele Stream (15.3), Kipapa Stream (12.8), Waiakakalaua Stream (11.8), Nuuanu Stream (4), and Ala Wai Canal (1.9), all on Oahu; and the Makaweli River (15.1), Wainiha River (13.8), Hanapepe River (13.3), and Wailua River (11.8), all on Kauai.

Source: Longest water feature from U.S. Geological Survey, records; other data from Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 166.-- MAJOR NAMED WATERFALLS, BY ISLANDS

[Includes the largest named waterfall on each major island, either in height or average discharge; all other named falls 250 feet high or over; and well-known smaller falls. Many unnamed falls have sheer drops of 200 feet or more]

Island	Waterfall	Height (feet)		Horizontal distance (feet)	Average discharge (million gal./day)
		Sheer drop	Cascade		
Hawaii ..	Kaluahine	...	620	400	...
	Akaka	442	...	...	...
	Waiilikahi	320	...	...	6.6
	Hiilawe (3 falls)	...	300	200	...
	Rainbow	80	...	...	303.5
Maui	Honokohau	...	1,120	500	25.2
	Waihiumalu	...	400	150	...
	Waimoku	...	40	50	37.1
Molokai .	Kahiwa	...	1,750	1,000	...
	Papalaua	...	1,200	500	...
	Wailele	...	500	150	...
	Haloku	...	500	200	...
	Hipuapua	...	500	300	...
	Olupena	...	300	150	...
	Moaula	...	250	200	19.7
Oahu	Kaliuwaa (Sacred) 1/ .	80	1,520	3,000	...
	Waihee (Waimea)	40	...	...	6.8
	Manoa	...	200	250	2.4
Kauai ...	Waipoo (2 falls)	...	800	600	...
	Awini	...	480	500	...
	Hinalele	280	...	...	...
	Kapakanui	280	...	...	...
	Manawaiopuna	280	...	...	...
	Wailua	80	...	...	...
	Opaekaa	40	...	...	...
	Puwainui	20	...	...	90.9

1/ Sheer drop refers to northernmost fall of a cascade of six falls.

Source: U.S. Geological Survey, records; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 167.-- LAKES

[Data shown for the largest natural or man-made lake on each island, and other lakes of interest. At the present time there are no natural lakes on Oahu and Kauai, and no lakes of any type on Kahoolawe and Lanai. Excludes shoreline fish ponds and areas filled only during floods. The largest intermittent lake in the State is Halalii Lake, Niihau, with a maximum area of 840.7 acres]

Island	Name	Category	Maximum depth (feet)	Elevation (feet)	Area (acres)	Shoreline (miles)
Hawaii ..	Waiakea Pond	Natural	(NA)	Sea level	27	2
	Lake Waiau 1/ ...	Natural	10	13,020	2	0.2
Maui	Kanaha Pond	Natural	(NA)	Sea level	41	2
	Violet Lake	Natural	(NA)	5,020	1	0.1
Kahoolawe	....	...	...	...	...	...
Lanai ...	....	...	...	...	...	...
Molokai .	Meyer Lake	Natural	5	2,021	6	1
Oahu	Wahiawa Reservoir	Man-made	85	842	302	11
	Salt Lake 2/	Natural	(NA)	Sea level	273	2
Kauai ...	Waita Reservoir .	Man-made	23	241	424	3
Niihau ..	Halulu Lake	Natural	(NA)	Sea level	182	3

NA Not available.

1/ Highest lake in the State and third highest in the United States.

2/ Data refer to 1964. Since that time, Salt Lake has been mostly filled and is no longer considered a lake.

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 168.-- MISCELLANEOUS GEOGRAPHIC STATISTICS, BY ISLANDS

Island	Extreme length (miles)	Extreme width (miles)	Miles of sea cliffs with heights 1,000 ft. or more 1/	Miles from coast of most remote point	Percent of area within 5 miles of coast
The State ..	...	...	33	28.5	48.6
Hawaii	93	76	4	28.5	30.0
Maui	48	26	-	10.6	76.1
Kahoolawe	11	6	-	2.4	100.0
Lanai	18	13	1	5.2	100.0
Molokai	38	10	14	3.9	100.0
Oahu	44	30	-	10.6	79.0
Kauai	33	25	11	10.8	67.0
Niihau	18	6	3	2.4	100.0

Island	Percent of area with elevation --		Approximate mean altitude (feet)	Percent of area with slope --	
	Less than 500 feet	2,000 feet or more		Less than 10 percent	20 percent or more
The State ..	20.8	50.9	3,030	63.5	17.0
Hawaii	12.0	68.4	3,950	76.0	4.0
Maui	24.9	41.4	2,390	38.5	36.0
Kahoolawe	38.9	0	600	60.0	9.0
Lanai	24.8	6.3	1,140	61.0	16.0
Molokai	37.3	17.8	1,150	53.0	26.0
Oahu	45.3	4.6	860	42.5	45.5
Kauai	35.6	24.0	1,380	33.5	50.5
Niihau	78.2	0	530	68.0	12.5

1/ According to Lee S. Motteler, Geography and Map Division, Bernice P. Bishop Museum, the sea cliffs along the northeastern coast of Molokai between Umilehi Point and Puukaoku Point drop 3,250 feet at an average slope of 58 degrees. These cliffs have been described by the Guinness Book of World Records (1984 edition, p. 108) as "the highest sea cliffs yet pinpointed anywhere in the world."

Source: Hawaii State Department of Planning and Economic Development, Hawai'i, the Natural Environment (1974), p. 19; U.S. Geological Survey, Elevations and Distances in the United States (1978), pp. 4-5.

Table 169.-- VOLCANIC ERUPTIONS: 1969 TO 1984

[Complete through June 30, 1984. Four volcanoes have erupted in historical times: Haleakala, last active around 1790; Hualalai, last active in 1800-1801; and Kilauea and Mauna Loa, both active during the past decade and included in this table]

Volcano and date of outbreak	Repose period since previous eruption (months)	Duration (days)	Location 1/	Elevation (feet)	Area (square miles)	Volume (1,000 cubic yards)
Mauna Loa:						
1975: July 5	301	<1	S	13,000	5.2	35,000
1984: March 25 ..	104	22	S, ER	13,200-9,400	11±	230,000
Kilauea:						
1969: Feb. 22 ...	4.0	6	ER	3,100-2,900	2.3	22,000
May 24	2.0	867	ER	3,150	19.3	242,000
1971: Aug. 14 ...	-	<1	C	3,660-3,600	0.8	12,400
Sept. 24 ..	-	5	C, SWR	3,740-2,730	1.5	10,500
1972: Feb. 4	4.3	455	ER	3,150	13.5	163,800
1973: May 5	-	<1	ER	3,340-3,250	0.1	1,600
Nov. 10 ...	-	30	ER	3,250-2,900	0.4	3,700
Dec. 12 ...	0.1	203	ER	3,150	3.1	39,300
1974: July 19 ...	-	3	C, ER	3,600-3,520	1.2	9,000
Sept. 19 ..	2.0	<1	C	3,680	0.4	14,000
Dec. 31 ...	3.4	<1	C	3,600	2.9	19,600
1975: Nov. 29 ...	11.0	<1	C	3,600-3,520	0.1	300
1977: Sept. 13 ..	21.5	18	ER	2,080-1,600	3.0	45,000
1979: Nov. 16 ...	26.3	1	ER	3,270-3,200	0.1	800
1982: April 30 ..	29.5	<1	C	3,630	0.1	260
Sept. 25 ..	4.9	<1	C	3,620	0.3	3,900
1983: Jan. 3	3.3	545	ER	2,560-2,120	(NA)	168,000

NA Not available.

1/ C, caldera; ER, east rift; S, summit; SWR, southwest rift.

2/ Less than 100 square feet.

Source: Gordon A. Macdonald and Douglass H. Hubbard, Volcanoes of the National Parks in Hawaii, 8th edition (Hawaii Natural History Association, 1982), pp. 10, 19, 34, and 58, as updated by the staff of the Hawaiian Volcano Observatory through June 30, 1984.

Table 170.-- EARTHQUAKES OF MAGNITUDE 5 OR GREATER: 1974 TO 1984

[Complete to March 31, 1984]

Date		Location	Magnitude (Richter Scale)
1974:	Nov. 30	Hawaii	5.5-6.0
1975:	Jan. 1, 2:41 AM ...	Near Pahala, Hawaii	5.1
	Jan. 1, 3:20 AM ...	Mauna Loa, Hawaii	5.1
	Jan. 2	Near Pahala, Hawaii	5.6
	Jan. 5	Mauna Loa, Hawaii	5.1
	Nov. 29, 3:35 AM ..	Puna, Hawaii	5.7
	Nov. 29, 4:47 AM ..	Puna, Hawaii	7.2
1977:	Jan. 22	100 miles S. of Kauai	5.0
1979:	March 29	40 miles S.W. of Oahu	5.5
	Sept. 21	Puna, Hawaii	5.5
1981:	March 5	Molokai area	5.0
	Nov. 10	Kilauea, Hawaii	5.3
1982:	Jan. 21, 11:52 AM .	Mauna Loa, Hawaii	5.5
	Jan. 21, 12:29 PM .	Mauna Loa, Hawaii	5.5
	May 14	Off Kawaihae, Hawaii	5.0
1983:	Nov. 16	S.E. flank of Mauna Loa ..	6.3-6.6

Source: Hawaii Institute of Geophysics, records: U.S. Geological Survey, National Earthquake Information Service. Data provided by Professor Augustine S. Furumoto, Hawaii Institute of Geophysics, University of Hawaii, May 9, 1984.

Table 171.-- TSUNAMIS WITH RUN-UP OF 2 METERS (6.6 FEET) OR MORE: 1924 TO 1984

[Correct to March 31, 1984]

Date	Maximum height in Hawaii		Deaths in Hawaii	Damage in Hawaii (dollars)
	Meters	Feet		
1924: May 30	5 (?)	16 (?)	-	Great locally
1933: March 2	2.9	9.5	-	Some
1946: April 1	17.0	55.8	159	26,000,000
1952: Nov. 4	6.1	20.0	-	1,000,000
1957: March 9	16.0	52.5	-	5,000,000
1960: May 22	10.5	34.5	61	23,000,000
1964: March 27	4.8	15.7	-	67,590
1975: Nov. 29	14.6	48.0	2	1,500,000

Source: George Pararas-Carayannis, *Catalog of Tsunamis in the Hawaiian Islands* (U.S. Coast and Geodetic Survey, May 1969); Robert C. Schmitt, "Catastrophic Mortality in Hawaii," *The Hawaiian Journal of History*, Vol. III (1969), pp. 66-86; Harold G. Loomis, *The Tsunami of November 29, 1975 in Hawaii* (Hawaii Institute of Geophysics, December 1975), pp. 1 and 10; D.C. Cox and J. Morgan, *Local Tsunamis and Possible Local Tsunamis in Hawaii* (Hawaii Institute of Geophysics, Report HIG 77-14, November 1977); Hawaii Institute of Geophysics, records.

Table 172.-- MAJOR DAMS: 1984

Name	Location	Height (ft.)	Length (ft.)	Volume of water impounded (acre ft.)
Wahiawa Dam ...	Wahiawa, Oahu	98	460	7,671
Waita	Koloa, Kauai	28	3,250	6,500
Kualapuu	Kualapuu, Molokai .	58	7,100	4,265
Alexander Dam .	Kalaheo, Kauai	119	600	2,500
Nuuanu No. 4 ..	Honolulu, Oahu	73	1,730	1,420

Source: Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 173.-- WATER USE, BY TYPE, BY ISLANDS: 1980

[Millions of gallons per year]

Type of water and use	State total	Hawaii	Maui	Lanai
Agricultural:				
Ground water	136,510	1,720	47,300	330
Surface water	237,950	3,630	129,130	-
Recycled water	32,970	50	9,730	-
Commercial:				
Ground water	2,770	1,470	-	-
Domestic:				
Ground water	71,770	2,280	3,830	140
Surface water	3,880	130	3,500	-
Hydroelectric:				
Surface water	74,190	22,840	14,620	-
Industrial, thermoelectric:				
Ground water	31,520	24,740	-	-
Surface water	2,170	-	-	-
Seawater 1/	447,810	3,140	14,820	-
Industrial, other uses:				
Ground water	18,680	2,030	2,810	-
Surface water	11,220	4,080	2,910	-
Recycled water	4,130	1,900	160	-

Continued on next page.

Table 173.-- WATER USE, BY TYPE, BY ISLANDS: 1980 -- Con.

Type of water and use	Molokai	Oahu	Kauai	Niihau
Agricultural:				
Ground water	140	70,360	16,650	10
Surface water	990	16,170	88,030	-
Recycled water	-	3,350	19,840	-
Commercial:				
Ground water	-	410	890	-
Domestic:				
Ground water	270	63,250	1,990	10
Surface water	80	-	170	-
Hydroelectric:				
Surface water	-	-	36,730	-
Industrial, thermoelectric:				
Ground water	10	4,880	1,890	-
Surface water	-	-	2,170	-
Seawater 1/	-	425,900	3,950	-
Industrial, other uses:				
Ground water	-	7,340	6,500	-
Surface water	30	-	4,200	-
Recycled water	-	200	1,870	-

1/ Includes water from wells near the seacoast.

Source: Data compiled by U.S. Geological Survey, cited in Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, Water Use in Hawaii, 1980 (Report No. R-79, 1984).

Table 174.-- POLLUTION ABATEMENT COSTS AND EXPENDITURES: 1982

[Unless otherwise specified, in millions of dollars]

Subject	State total	Oahu
Total pollution abatement capital expenditures	1.7	(NA)
Air	0.4	(NA)
Water	0.6	(NA)
Solid waste	0.6	(NA)
Gross annual cost of pollution abatement	12.6	6.1
Payments to government units	1.2	0.9
Operating costs	11.4	5.2
Air	3.1	2.1
Water	4.0	2.0
Solid waste	4.3	1.1
Cost recovered	0.9	0.7
Air	0.3	0.1
Water	0.6	0.6
Solid waste	-	-
Quantities of pollutants removed (1,000 short tons):		
Air:		
Particulates	45.1	(D)
Sulfur dioxides	6.7	6.7
Water:		
Total suspended solid	1,355.5	(D)
Biochemical oxygen demand	0.6	0.4
Other water pollutants	0.2	(D)
Solid waste	1,770.6	159.3

D Withheld to avoid disclosing operations of individual companies.
NA Not available.

Source: U.S. Bureau of the Census, "Pollution Abatement Costs and Expenditures, 1982," Current Industrial Reports, MA-200(82)-1 (February 1984), pp. 26, 41, 43, 56, 58, 71, and 73.

Table 175.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1980 TO 1983

Island and beach	Number of samples, 1983	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1980	1981	1982	1983
Hawaii (Hilo side):					
Exit of Ice Pond	11	41.6	178.3	27.3	27.5
Leileiwi Beach Park	25	195.5	219.3	222.6	121.1
Onekahakaha	11	13.5	8.2	17.3	6.4
Puhi Bay No. 3	8	9.1	30.4	18.1	12.6
Hawaii (Kona side):					
Hapuna Beach	6	16.2	19.5	33.0	15.2
Kahaluu Beach	6	2.5	2.0	2.3	6.4
Kealakekua Bay (off curio stand)	6	2.5	2.3	2.3	3.9
Kealakekua Bay (off canoe landing)	6	2.8	2.4	2.3	4.4
Magic Sands Beach	6	3.6	2.4	8.0	3.4
Puako Beach Lots (middle)	6	16.7	9.0	29.6	21.4
Puako Beach Lots (far end)	6	35.8	18.6	74.0	21.2
Spencer Beach Park	6	7.8	29.5	14.6	4.7
Maui:					
Hukilau Hotel shoreline	12	3.3	2.0	2.9	3.3
Kahului Breakwater	-	2.1	2.0	3.1	...
Wailuku Breakwater	-	4.2	2.8	3.4	...
Maui Sheraton	12	...	2.0	2.7	2.3
Oahu:					
Ala Moana Park (ewa)	21	5.1	5.6	11.0	6.8
Ala Moana Park (center)	12	3.1	4.1	4.9	2.0
Ala Moana Park (diamond head)	12	7.9	5.4	5.8	6.2
Elks Club Beach	12	5.9	4.0	4.9	4.0
Ewa Beach	11	4.3	6.3	5.5	4.4
Ft. DeRussy Beach	12	7.2	5.2	18.5	5.6
Gray's Beach	21	5.7	5.7	6.0	5.7
Hanauma Bay	24	5.1	8.1	13.0	6.8
Kahana Park Beach	12	35.9	43.6	62.2	24.0
Kahanamoku Beach	12	8.9	4.5	3.3	3.4
Kahanamoku Lagoon (diamond head)	22	127.3	79.8	38.5	23.3
Kailua Bay outfall shoreline	12	8.8	2.3	5.3	2.0
Kailua Beach Park	12	13.2	3.7	5.7	3.1
Kokokahi Pier	14	60.6	25.6	48.5	29.8
Kuhio Beach	14	37.3	5.2	23.9	9.7
Public Bath Beach	21	4.6	3.6	3.3	2.5
Tavern Beach	13	17.9	3.5	7.3	4.4
Sand Island Pt. No. 3	12	8.9	4.4	2.7	2.9

Continued on next page.

Table 175.-- WATER QUALITY AT SPECIFIED PUBLIC BEACHES: 1980 TO 1983 - Con.

Island and beach	Number of samples, 1983	Fecal coliform density 1/ (geometric mean, MPN/100 ml)			
		1980	1981	1982	1983
Kauai:					
Brennecke Beach	5	2.7	2.0	2.0	4.1
Hanalei Bay Landing	5	30.6	16.7	60.1	86.0
Poipu Beach	5	2.3	2.7	2.5	2.0

MPN Most probable number.

1/ The geometric mean standard for fecal coliform density is 200 per 100 ml.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied May 2, 1984.

Table 176.-- WATER SERVICES AND CONSUMPTION, FOR COUNTY WATERWORKS: 1982 AND 1983

Geographic area	Number of services, June 30		Consumption 1/ (millions of gallons)	
	1982	1983	1982	1983
State total	179,648	181,980	56,719	59,724
City and County of Honolulu ..	126,400	127,540	42,646	44,535
Honolulu 2/	58,159	58,173	24,317	25,658
Rest of Oahu	68,241	69,367	18,329	18,877
Hawaii County	23,682	24,218	4,753	5,066
Kauai County	10,823	11,049	2,805	3,240
Maui County	18,743	19,173	6,515	6,883
Maui	17,607	18,007	6,235	6,592
Molokai	1,136	1,166	280	292

1/ Year ended June 30.

2/ Maunalua to Moanalua.

Source: Honolulu Board of Water Supply, Annual Report and Statistical Summary for 1981-1982 and 1982-1983; Hawaii County Department of Water Supply, records; Kauai Department of Water, records; Maui Department of Water Supply, records.

Table 177.-- AIR QUALITY IN DOWNTOWN HONOLULU: 1973 TO 1983

[Sampling is conducted approximately 46 ft. above ground on the roof of the State Health Department building, 1250 Punchbowl Street, Honolulu, Hawaii]

Year	Annual arithmetic means (ug/m^3)	
	Total suspended particulates	Sulfur oxides
1973	34	7
1974	35	10
1975	40	9
1976	34	23
1977	31	17
1978	29	18
1979	32	22
1980	37	18
1981	40	19
1982	29	11
1983	26	<5
Standards: 1/		
Primary	75	80
Secondary	60	...

1/ Primary and secondary National Ambient air quality standards have been promulgated by the Federal government. Primary standards are designed to prevent adverse effects on public health, while secondary standards are designed to prevent adverse effects on public welfare, including the effects on comfort, visibility, vegetation, animals, aesthetic values, and soiling and deterioration of materials.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied May 2, 1984.

Table 178.--SOURCES OF AIR POLLUTANT EMISSIONS, BY COUNTIES: 1980

[Percent distributions for the sums of weights of sulfur oxides, particulate matter, carbon monoxide, hydrocarbons, and nitrogen oxide emissions]

Source	State total	Hawaii	Honolulu	Kauai	Maui
All sources	100.0	100.0	100.0	100.0	100.0
Transportation	43.0	38.1	47.4	40.6	35.8
Motor vehicles	40.1	36.2	43.9	35.7	33.1
Aircraft	2.3	1.1	2.9	2.3	1.6
Vessels	0.6	0.8	0.6	2.6	1.1
Fuel combustion in stationary sources	29.7	34.9	26.7	32.2	35.3
Steam electric	23.1	19.8	24.6	18.5	22.4
Gas utilities	0.1	(N)	0.1	(N)	(N)
Ag. fuel	6.5	15.1	2.0	13.7	12.9
Industrial process losses	14.6	7.7r	20.3	3.2	3.5
Refinery	4.8	(N)	6.5	(N)	(N)
Petroleum storage	0.7	1.1	0.8	(N)	0.5
Metalurgical	0.1	(N)	0.1	(N)	(N)
Mineral products	6.9	3.9	10.8	0.9	1.1
Off-highway const., farms and industries	2.1	2.7	2.1	2.3	1.9
Municipal incinerator	0.9	(N)	1.3	(N)	(N)
Agricultural burning	11.7	19.3	4.3	24.2	25.4

r Revised from Data Book 1983, table 148.
N Less than 0.05 percent.
Source: Hawaii State Department of Health, Environmental Permits Branch, information provided May 2, 1984.

Table 179.-- AIR QUALITY AT SPECIFIED LOCATIONS: 1983

[24-hour sampling, in micrograms per cubic meter]

Sampling station	Total suspended particulates			Sulfur dioxide		
	Annual range		Arith- metic average	Annual range		Arith- metic average
	Minimum	Maximum		Minimum	Maximum	
Oahu:						
Barbers Point ...	28	193	54	<5	95	5.2
Downtown Honolulu	14	58	26	<5	16	<5
Kalihi Kai 1/ ...	23	98	43	...	...	...
Pearl City	17	57	30	<5	...	<5
Waikiki 1/	18	59	33	...	5	...
Waimanalo	11	45	23	...	...	...
Maui:						
Kahului	4	163	69	<5	67	5.6
Kihei	12	139	45	...	...	...
Hawaii:						
Hilo	7	50	17	<5	23	<5
Kauai:						
Lihue	18	90	39	<5	<5	<5

1/ SO_x sampling discontinued January 1, 1983.

Source: Hawaii State Department of Health, Pollution Investigation and Enforcement Branch, data supplied May 2, 1984.

Table 180.-- NOISE LEVELS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982

[Data collected during the latter part of 1981 and throughout 1982, during daylight hours only. Data were obtained from both manual sampling, utilizing on-site noise-level readouts, and automatic sampling, utilizing a community noise analyzer. Differences in noise levels as measured by the two types of sampling result from the inclusion in the automatic samplings of such sources as vehicles traveling near the microphone, barking dogs, or other instantaneous sounds. With manual samplings, these sources are eliminated from the recorded data]

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
HONOLULU						
Aina Haina	45.6	42.1	39.5	53.5	46.2	43.2
Aina Koa	48.1	43.1	40.1	52.9	45.8	42.5
Downtown	57	55	54	60	57	55
Hawaii Kai	46.5	41.6	38.9	53.5	46.9	42.9
Kahala	48.0	44.5	42.4	-	-	-
Kaimuki	51.8	44.6	41.7	57.2	47.6	43.3
Kalihi	53.5	49.6	47.4	-	-	-
Kapahulu	47.2	45.0	42.0	-	-	-
Kapalama-Liliha	46.4	45.1	42.5	-	-	-
Kuliouou	48.6	45.9	43.4	52.5	47.9	45.4
Liliha	46	45	43	-	-	-
Makiki	52.7	46.9	45.3	56.5	50.5	48.6
Manoa	45.4	42.6	40.7	51.5	46.0	43.4
Moiliili	53.7	50.2	46.9	60.0	53.4	48.9
Nuuanu	46.6	43.6	40.8	-	-	-
Palolo	49.3	44.6	41.6	65.0	52.4	45.4
Pawaa	59.8	57.1	55.2	60.8	57.1	54.7
Salt Lake	56	52	49	-	56	51
Waikiki	57.8	55.4	54.1	61.6	57.5	55.3
Waialae Iki ...	46.4	43.1	40.6	54.6	44.8	41.7
REST OF OAHU						
Aiea	58	54	52	59	56	54
Halawa	52	46	44	55	50	47
Hauula	53	48	45	56	51	47
Kailua	49.2	45.5	42.9	54.9	49.6	45.2
Kaneohe	43.8	40.9	38.9	49.7	43.5	40.9

Continued on next page.

Table 180.-- NOISE LEVELS IN SPECIFIED NEIGHBORHOODS ON OAHU: 1981-1982 -- Con.

Neighborhood	Noise levels (in decibels) exceeded --					
	Manual sampling			Automatic sampling		
	10 percent of time	50 percent of time	90 percent of time	10 percent of time	50 percent of time	90 percent of time
REST OF OAHU -- Con.						
Mililani	44	37	34	53	46	41
Nanakuli	54	50	47	58	52	48
Pearl City	51	47	45	55	50	48
Wahiawa	47.1	44.7	42.4	51.8	47.3	43.9
Waimanalo	53	50	48	55	51	49
Waipahu	54.1	50.5	47.4	58.8	53.6	50.4

Source: Hawaii State Department of Health, Environmental Protection and Health Services Division, Noise and Radiation Branch, records.

Table 181.-- AVERAGE WATER TEMPERATURES AT WAIKIKI BEACH

[In Fahrenheit degrees]

Month	Morning	Afternoon
March	75	77
August	77	82

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii, 1983.

Table 182.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Hawaii:						
Hilo Airport	27	71.2	75.9	53	94	127.40
Hawaii Volcanoes Nat. Park Hdq.	3,971	57.6	63.2	37	85	102.81
Kailua	30	72.1	77.3	54	93	25.22
Puako 1/	10	73.1	79.8	52	98	9.47
Waimea (Kamuela)	2,670	62.3	66.8	34	90	40.05
Mauna Kea summit 2/	13,796	31.3	42.5	11	66	8.08
Maui:						
Hana	120	71.3	76.8	50	90	70.65
Haleakala summit	9,960	42.6	50.0	14	73	50.69
Kihei 3/	90	70.9	78.4	49	98	13.79
Kahului Airport	48	71.6	79.0	48	96	18.76
Lahaina	45	71.5	78.0	52	93	15.51
Molokai:						
Kaunakakai	12	...	...	...	...	14.08
Molokai Airport	450	70.2	77.6	48	90	29.21
Lanai:						
Lanai City	1,620	65.8	72.8	46	88	38.44
Oahu:						
Honolulu International Airport	7	72.5	80.1	53	93	22.83
Honolulu (Old Federal Bldg.) 4/	12	72.0	78.6	57	88	25.35
Waikiki (Honolulu Zoo)	10	71.9	80.6	51	93	27.32
Manoa (Lyon Arboretum)	500	69.4	75.2	...	...	158.41
Kaneohe MCAS	10	72.9	79.1	58	90	43.88
Kahuku	25	71.6	78.8	49	95	41.10
Wheeler AFB	826	68.2	75.5	52	89	39.85
Waianae	20	72.1	79.7	45	96	20.31

Continued on next page.

Table 182.-- TEMPERATURES AND PRECIPITATION FOR SELECTED PLACES -- Con.

Island and station	Ground elevation (feet)	Average temperature (°F.)		Extreme temperature of record (°F.)		Average annual precipitation (inches)
		Coolest month	Warmest month	Lowest	Highest	
Kauai:						
Kilauea (town)	315	68.7	75.6	49	94	68.03
Lihue Airport	103	70.2	77.9	50	90	43.92
Poipu (Makahuena Pt.)	52	72.4	79.4	50	93	36.39
Kokee (Kanalohuluhulu)	3,600	54.9	65.5	31	80	72.25
Waialeale	5,075	...	...	...	...	451.00
Northwestern Hawaiian Islands:						
Midway	10	65.0	78.6	52	89	43.60

1/ Temperature data are for Mahukona.

2/ Based on incomplete and non-continuous data for 1966-1972.

3/ Temperature data refer to Puunene Airport.

4/ Temperature sensors were 87 feet above the ground.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service Pacific Region, data supplied March 17, 1976 and May 2, 1977, and National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, 1983 for Hilo, Kahului, Honolulu, and Lihue; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 14, 1984.

Table 183.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT

Month	Normal temperature (°F)			Extreme temperature (°F) 1/		Precipitation (inches)			
	Daily maximum	Daily minimum	Monthly	Record highest	Record lowest	Normal total	Maximum monthly	Minimum monthly	Maximum in 24 hours
Jan. .	79.9	65.3	72.6	87	53	3.79	14.74	0.32	6.72
Feb. .	80.4	65.3	72.9	87	53	2.72	13.68	0.06	6.88
Mar. .	81.4	67.3	74.4	88	55	3.48	20.79	0.01	17.07
Apr. .	82.7	68.7	75.7	89	59	1.49	8.92	0.01	4.21
May ..	84.8	70.2	77.5	90	62	1.21	7.23	0.05	3.44
June .	86.2	71.9	79.1	91	65	0.49	2.46	T	2.28
July .	87.1	73.1	80.1	91	67	0.54	2.01	0.03	1.03
Aug. .	88.3	73.6	81.0	92	67	0.60	3.08	T	2.35
Sept.	88.2	72.9	80.6	92	66	0.62	2.74	0.05	1.40
Oct. .	86.7	72.2	79.5	93	64	1.88	11.15	0.11	7.57
Nov. .	83.9	69.2	76.6	90	58	3.22	14.72	0.03	9.15
Dec. .	81.4	66.5	74.0	89	54	3.43	12.09	0.06	8.14
Ann. .	84.2	69.7	77.0	93	53	23.47	20.79	T	17.07

Continued on next page.

Table 183.-- MONTHLY AND ANNUAL CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT -- Con.

Month	Relative humidity (percent) 2/		Wind (miles/hour)		Percent of possible sun-shine	Mean sky cover, sunrise to sun-set 3/	Mean number of days		
							Sunrise to sunset		Precip. .01 inch or more
	8 A.M.	2 P.M.	Mean speed	Fastest mile			Clear	Cloudy	
Jan. ...	82	63	9.8	67	61	5.5	9	9	10
Feb. ...	78	60	10.5	63	63	5.7	7	8	9
Mar. ...	73	58	11.6	59	68	5.9	7	10	9
Apr. ...	70	57	12.1	40	66	6.3	6	11	9
May	67	55	12.1	35	68	6.0	6	10	7
June ...	67	53	12.8	39	70	5.7	6	7	6
July ...	68	52	13.6	34	73	5.3	7	5	8
Aug	68	54	13.3	52	74	5.3	8	6	7
Sept. ..	68	52	11.7	36	75	5.2	8	6	7
Oct. ...	69	55	10.9	40	68	5.6	7	8	9
Nov. ...	75	59	10.9	65	61	5.7	7	9	9
Dec. ...	79	62	10.7	59	58	5.6	8	10	10
Ann. ...	72	57	11.7	67	67	5.7	86	99	101

T Trace, an amount too small to measure.

1/ For periods October 1962 through December 1964 and September 1971 through December 1983.

2/ Data for 1963, 1964, and 1972-1983.

3/ Sky cover is expressed in a range of 0 for no clouds or obscuring phenomena to 10 for complete sky cover.

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary With Comparative Data, Honolulu, 1983.

Table 184.-- CLIMATIC DATA FOR THE PERIOD OF RECORD

Subject	Date	Place	Magnitude
Long-term averages:			
Lowest monthly average minimum temp. (°F.) ..	February	Mauna Kea summit ..	23.5
Lowest monthly average daily temp. (°F.)	February	Mauna Kea summit ..	31.3
Highest monthly average maximum temp. (°F.) .	September	Kawaihae 1/	91.9
Highest monthly average daily temp. (°F.) ...	September	Kawaihae 1/	80.8
Lowest average annual rainfall (inches)	....	Kawaihae	8.7
Highest average annual rainfall (inches)	....	Waialeale	451
Single events:			
Lowest temperature of record (°F.)	Jan. 20, 1970 ...	Mauna Kea summit 2/	1.4
Highest temperature of record (°F.)	April 27, 1931 ..	Pahala	100
Lowest annual rainfall of record (inches) ...	1953	Kawaihae	0.2
Highest annual rainfall of record (inches) ..	1982	Waialeale	666
Highest wind speed of record (m.p.h.)	Nov. 23, 1982 ...	Makahuena Pt. 3/ ..	117

1/ Puukohola Heiau National Historical Site, Kawaihae, Hawaii.

2/ Recorded by Dr. Alfred Woodcock 60 meters inside the Mauna Kea summit cone, at 6:50 a.m. The rim at that time had a temperature of 39° F.

3/ Makahuena Point Coast Guard Station, Poipu, Kauai.

Source: U.S. Department of Commerce, National Weather Service, Pacific Region, data supplied March 14, 1973; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data supplied September 14, 1984.

Table 185.-- CLIMATIC DATA FOR HONOLULU INTERNATIONAL AIRPORT: ANNUALLY, 1973 TO 1983

Year	Average temperature (°F)			Extreme temp. (°F)		Precipitation (inches)
	Annual	Coolest month	Warmest month	Lowest	Highest	
1973 ...	77.2	72.6	81.2	55	91	14.24
1974 ...	77.5	74.0	81.2	58	92	24.02
1975 ...	76.2	72.4	80.1	56	90	24.39
1976 ...	76.8	72.0	80.8	53	91	12.90
1977 ...	78.2	73.7	82.2	59	92	12.36
1978 ...	76.8	72.4	80.5	57	91	25.05
1979 ...	77.0	69.9	81.1	57	93	16.93
1980 ...	77.5	71.9	81.6	56	91	26.90
1981 ...	77.1	73.2	80.7	53	90	13.41
1982 ...	76.9	71.7	81.4	56	92	34.92
1983 ...	77.2	71.3	82.4	53	92	5.03

Year	Relative humidity (percent)		Wind speed (miles/hour)		Percent of possible sunshine	Days with precipitation .01 inch or more
	8 A.M.	2 P.M.	Annual average	Fastest mile		
1973 ...	70	54	12.7	33	63	110
1974 ...	73	58	10.9	34	61	118
1975 ...	72	56	12.2	36	62	82
1976 ...	64	52	11.5	38	60	105
1977 ...	71	55	12.2	37	68	81
1978 ...	74	58	11.9	34	69	90
1979 ...	74	57	11.4	34	68	89
1980 ...	75	59	11.9	35	69	115
1981 ...	76	59	10.7	30	72	97
1982 ...	73	59	10.4	46	56	124
1983 ...	75	52	9.8	23	64	78

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, *Local Climatological Data, Annual Summary With Comparative Data, Honolulu, Hawaii* (annual).

Table 186.-- CLIMATIC DATA FOR HILO, KAHULUI, HONOLULU, AND LIHUE AIRPORTS

Subject	Hilo	Kahului	Honolulu	Lihue
Normal temperatures (°F.):				
Daily maximum	81.2	83.8	84.2	81.1
Daily minimum	65.9	67.2	69.7	69.3
Monthly: Coolest month	71.2	71.5	72.6	71.3
Warmest month	75.9	79.2	81.0	79.1
Annual	73.6	75.5	77.0	75.2
Extreme temperatures (°F.):				
Record highest	94	96	93	90
Record lowest	53	48	53	50
Normal degree days, base 65°F.:				
Heating	-	-	-	-
Cooling	3,134	3,851	4,389	3,758
Precipitation (inches):				
Normal	128.15	19.84	23.47	44.02
Maximum monthly	50.82	14.46	20.79	22.91
Minimum monthly	0.28	0.00	T	T
Relative humidity (percent):				
8 A.M.	80	75	72	78
2 P.M.	68	57	57	67
Wind speed (m.p.h.):				
Mean	7.1	12.8	11.7	11.8
Fastest mile	30	44	67	73
Percent of possible sunshine	40	69	67	56
Mean number of days:				
Clear	34	127	86	53
Partly cloudy	128	149	180	177
Cloudy	203	89	99	135
Precipitation .01 inch or more	279	98	101	203

Source: U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1983 for Hilo, Kahului, Honolulu, and Hilo.

Table 187.-- RAINFALL AT SPECIFIED LOCATIONS: ANNUALLY, 1973 TO 1983

[In inches]

Year	Hawaii			Maui		
	Hilo Airport	Kona Airport	Kona Village	Kahului Airport	Kihei	Lahaina
1973 ...	107.97	12.49	4.17	10.27	5.92	10.13
1974 ...	112.92	35.57	8.10	18.68	14.97	13.01
1975 ...	99.93	20.28	15.64	13.74	10.63	12.19
1976 ...	114.67	17.32	7.04	12.83	8.84	8.86
1977 ...	90.38	14.60	3.40	11.50	7.88	8.28
1978 ...	119.09	18.93	8.68	19.15	9.91	11.97
1979 ...	158.77	...	16.00	26.82	21.32	20.85
1980 ...	127.74	...	16.90	27.87	20.27	22.69
1981 ...	89.91	...	7.02	12.85	9.72	8.13
1982 ...	170.36	...	26.88	34.04	29.11	34.36
1983 ...	68.09	...	8.51	13.05	8.60	9.70

Year	Oahu			Kauai		
	Waikiki	Univ. of Hawaii	Nuuanu Res. 4	Koloa	Lihue Airport	Princeville
1973 ...	18.79	36.42	99.42	66.78	35.27	102.48
1974 ...	24.51	44.62	130.94	86.35	45.60	130.40
1975 ...	25.98	39.25	101.42	49.91	35.52	62.36
1976 ...	13.59	26.83	86.44	62.60	32.83	109.34
1977 ...	15.73	32.83	88.96	52.51	40.34	84.55
1978 ...	27.18	41.56	124.42	70.64	39.11	130.82
1979 ...	26.22	46.74	111.56	55.98	37.09	93.19
1980 ...	28.50	48.52	140.70	78.78	54.64	130.55
1981 ...	19.09	31.71	112.46	66.26	38.14	130.72
1982 ...	39.96	57.98	168.16	96.75	74.40	241.22
1983 ...	9.80	19.77	74.32	50.69	16.40	46.93

Source: U.S. Department of Commerce, National Climatic Data Center, Local Climatological Data, Annual Summary with Comparative Data, 1983 for Hilo, Kahului, and Lihue and Climatological Data Annual Summary, Hawaii and Pacific (annual); U.S. Department of Commerce, National Weather Service, Pacific Region, records; and Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, records.

Table 188.-- TRADE WINDS, HIGH SURF, AND TEMPERATURES IN HAWAIIAN WATERS, BY MONTHS

Month	Trade wind frequency 1/ (percent)	Expected days of strong trade winds 2/	Highest surf 3/ (average number of days)		Water temperature (°F.)	
			Flat or 1 foot	6 feet or more	Mean maximum	Mean minimum
Jan. ...	42	9	1	19	74.7	71.1
Feb. ...	55	7	1	16	75.6	70.3
March ..	61	10	1	12	76.5	71.8
April ..	74	10	3	7	77.7	73.0
May	86	7	8	3	79.5	74.7
June ...	91	7	15	-	81.1	77.7
July ...	95	10	16	-	81.1	78.3
Aug. ...	94	7	15	-	81.9	79.2
Sept. ..	83	4	10	2	81.9	78.4
Oct. ...	71	4	1	12	81.1	77.2
Nov. ...	64	8	-	19	79.3	74.5
Dec. ...	57	9	-	20	75.9	71.4
Ann. ...	65	92	71	110	78.6	74.8

1/ Mean monthly frequency of trade winds in Hawaiian waters.

2/ Expected number of hazardous days in Hawaiian waters due to strong trade winds.

3/ Observations at Sunset Beach, Oahu. Annual averages were: flat or 1 foot, 71 days; 2-5 feet, 184 days; 6-10 feet, 71 days; 11-15 feet, 26 days; 16 feet or higher, 13 days.

4/ Observations at Kaneohe, Oahu. The mean ranged from 73.0 in January and February to 80.2 in August. Absolute maximums and minimums were respectively 84 (in July, August, and October) and 68 (December and February).

Source: Paul Haraguchi, Weather in Hawaiian Waters (Honolulu: Pacific Weather, Inc., 1979), pages 14, 22, 56, and 74.

Table 189.-- MAJOR HURRICANES: 1950 TO 1984

[Complete to September 16, 1984]

Hurricane name	Date 1/	Islands most affected	Maximum winds ashore (m.p.h.)		Deaths	Property damage (million dollars)
			Sustained	Gusts		
Hiki	Aug. 12-16, 1950	Kauai	68	(NA)	1	0.200
Della	Sept. 1-17, 1957	French Frig. Shoals	82	109	-	Minor
Nina	Nov. 29-Dec. 7, 1957	Kauai	92	(NA)	4	1.056
Dot	Aug. 1-8, 1959	Kauai	81	103	-	5.5+
Fico	July 17-28, 1978	Hawaii	(NA)	58+	-	0.188
Iwa	Nov. 19-25, 1982	Kauai, Oahu	65	117	-	234

NA Not available.
1/ Total duration, including period outside Hawaiian waters.

Source: Samuel L. Shaw, *A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979* (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981); Hawaii State Department of Defense, Civil Defense Division, *Catalogue of Natural and Man-Caused Incidents and Disasters in the Hawaiian Islands* (December 1978); The Governor's Ad Hoc Committee on the Economic Impact of Hurricane Iwa, *Hurricane Iwa's Economic Impact on Hawaii* (January 1983); "The History of Hurricanes in Hawaii," *Honolulu Star-Bulletin*, July 18, 1983, p. A-5; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, letter dated December 5, 1983.

Table 190.-- TROPICAL CYCLONES IN THE HAWAIIAN ISLANDS AND CENTRAL NORTH PACIFIC: 1832 TO 1983

Period	Number
1832 to 1899 1/	6
1900 to 1949 1/	13
1950 to 1959	17
1960 to 1969	34
1970 to 1979	34
1980 to 1983	18

1/ Data prior to 1950 are thought to be seriously incomplete.

Source: Samuel L. Shaw, A History of Tropical Cyclones in the Central North Pacific and the Hawaiian Islands, 1832-1979 (U.S. Department of Commerce, National Oceanic and Atmospheric Administration, National Weather Service, September 1981), p. 109; Hawaii State Department of Land and Natural Resources, Division of Water and Land Development, data provided September 14, 1984.

Table 191.-- SUNRISE, SUNSET, AND HOURS OF DAYLIGHT AT HILO, HONOLULU, AND LIHUE, FOR SELECTED DATES

[Hawaiian Standard Time]

Subject	March 21	June 21	Sept. 23	Dec. 22
Sunrise (A.M.):				
Hilo	6:24	5:42	6:09	6:51
Honolulu	6:35	5:50	6:21	7:05
Lihue	6:41	5:55	6:26	7:12
Sunset (P.M.):				
Hilo	6:32	7:02	6:16	5:47
Honolulu	6:43	7:16	6:27	5:55
Lihue	6:49	7:23	6:33	6:00
Hours of daylight:				
Hilo	12:08	13:20	12:07	10:56
Honolulu	12:08	13:26	12:06	10:50
Lihue	12:08	13:28	12:07	10:48

Source: Nautical Almanac Office, U.S. Naval Observatory, Tables of Sunrise and Sunset, No. 1083 and 1084 and records.

Table 192.-- HAWAII AUDUBON SOCIETY BIRD COUNTS OF THE HONOLULU AREA: 1975 TO 1983

[Counts are made in late December, in a circle, 15 miles in diameter, centered near Nuuanu Pali]

Species 1/	1975-1979 2/	1980	1981	1982 3/	1983 3/
All species:					
Species	54	44	48	45	46
Individual birds ..	15,811	20,226	19,427	16,649	22,279
Endemic species:					
'Apapane	135	147	153	68	106
Hawaiian Coot	35	28	28	62	135
Hawaiian Stilt	128	115	92	77	110
Oahu 'Amakihi	132	152	159	65	140
Indigenous species:					
Great Frigatebird	597	615	366	24	37
Red-footed Booby	1,401	1,132	1,063	425	370
Introduced species:					
Cattle Egret	1,156	1,072	682	331	384
Common Myna	2,241	3,577	2,917	2,790	3,080
House Sparrow	1,155	1,684	1,604	1,489	2,518
Japanese White-eye	1,165	1,003	970	1,121	1,706
Red-vented Bulbul	503	1,174	1,159	1,199	2,195
Spotted Dove	1,091	1,104	1,393	1,052	1,606
Zebra (Barred) Dove	2,216	2,541	3,694	3,442	3,840
Migratory species:					
Lesser Golden-Plover ...	1,138	1,884	1,621	1,402	1,747
Ruddy Turnstone	165	397	361	291	269

1/ Separate data are shown for endemic birds averaging more than 25 individuals in 1975-1979, indigenous birds more than 200, introduced birds more than 500, and migratory species and stragglers more than 100. Endemic birds are those peculiar to a particular region, in this case Hawaii, and therefore found nowhere else in the world; indigenous birds are those native to a given region, in this case Hawaii, but with a total range of distribution encompassing a much wider area. The classification is that in Andrew J. Berger, Hawaiian Birdlife (1972).

2/ Annual averages.

3/ Excluding Moku Manu, previously included. Moku Manu had 4 species and 913 individuals (including 425 Red-footed Boobies and 460 Great Frigatebirds) in 1982, and 4 species and 760 individuals in 1983.

Source: Hawaii Audubon Society, The 'Elepaio (monthly).

Table 193.-- TREES ALONG STREETS OR IN PARKS UNDER THE JURISDICTION OF THE CITY AND COUNTY OF HONOLULU: 1978 TO 1983

[As of June 30]

Year	Along City and County streets and highways 1/	In City and County parks
1978	101,021	94,800
1979	104,499	95,600
1980	108,202	95,700
1981	110,975	96,250
1982	113,489	96,296
1983	114,875	96,130

1/ Excludes Federal, State, and private thoroughfares.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 194.-- ENDANGERED, THREATENED, AND EXTINCT SPECIES OF NATIVE HIGHER PLANTS: 1977

Status	Species, subspecies, and varieties	Percent
Total native flora	2,200	100.0
Endangered, threatened, or extinct 1/ ...	1,113	50.6
Endangered	646	29.4
Threatened	197	8.9
Extinct	270	12.3
Not endangered, threatened, or extinct .	1,087	49.4

1/ For the other 49 States, 2,140 (or 10.7 percent) of all 20,000 native higher plants are endangered, threatened, or extinct.

Source: Edward S. Ayensu and Robert A. DeFilipps, Endangered and Threatened Plants of the United States (Smithsonian Institution and the World Wildlife Fund, Inc., 1978), p. xiii.

Section 6

LAND USE AND OWNERSHIP

General statistics on the use, ownership, and tenure of land appear in this section. Information on specific use or ownership categories is given elsewhere: parks in section 7, agriculture in section 19, forests in section 20, cane land and industrial parks in section 22, and shopping centers in section 23.

Out of the 4,112,000 acres in the State, almost 1,300,000 are in cropland or pastureland. Other major categories include forestland, with 1,443,000 acres, urban and built-up, with 139,000, and miscellaneous nonfarm, with 790,000. In the Honolulu Metropolitan Statistical Area (which is coterminous with Oahu), land in residential use increased from 22,600 acres in 1969 to 28,100 in 1982; during the same 13-year span, agricultural land declined from 88,900 to 74,700 acres. For the State as a whole, the Land Use Commission has zoned 157,000 acres as "urban," 1,975,000 as "conservation," 1,970,000 as "agricultural," and 10,000 as "rural."

Recent data on land ownership indicate that the Federal government owns 8.3 percent of all land, the State and counties own 30.9 percent, and private owners (chiefly large estates) have 60.8 percent. Total Federal holdings reported by the General Services Administration in 1982 came to 701,000 acres, exclusive of leased land (51,000 acres); most of the Federal land is in wildlife, park and military use. The State Department of Hawaiian Home Lands holds about 186,000 acres, divided among 3,337 lessees. Total land parcels in the State number 391,000.

Considerable caution is necessary in comparing statistics from different sources on land use, ownership, or tenure. Variations in definitions and survey dates seriously affect comparability in many instances, even where terminology is relatively unambiguous and misinterpretation seems unlikely. An example of such difficulties is the wide range in estimates of Federal land, with totals ranging from 328,000 acres to 701,000.

Reports of the U.S. Department of Agriculture and General Services Administration, Hawaii State Department of Hawaiian Home Lands, Department of Land and Natural Resources, Department of Planning and Economic Development, and Land Use Commission, Honolulu Department of Finance, and Honolulu and Hawaii County planning departments provided the data for this section. Historical Statistics of Hawaii, Section 12, contains limited information for earlier years. Statistics for the nation as a whole are available in Sections 7, 11, 8 and 24 of the Statistical Abstract of the United States: 1984.

Table 195. -- LAND OWNERSHIP AND USE: 1977

[Thousands of acres]

Land ownership and use	Area
All categories	4,112
Federally owned	337
Nonfederal	3,775
Available for agriculture use	2,821
Cropland	293
Pastureland	992
Rangeland	-
Forestland	1,443
Other	93
Unavailable for agriculture use	954
Urban and built-up	139
Rural transportation	18
Other nonfarm	790
Water	7
National Wilderness Preservation System 1/	142

1/ 1980 data. There were two such areas in the State in 1980.

Source: U.S. Bureau of the Census, State and Metropolitan Area Data Book, 1982 (1982), pp. 495-496, items 793-807 and 810-811.

Table 196.-- LAND USE AND STRUCTURAL CHARACTERISTICS OF OAHU: 1981 AND 1982

Subject	Dec. 1981: Oahu total	Dec. 1982		
		Oahu total	Honolulu District	Rest of Oahu
LAND USE (IN ACRES)				
All existing uses	370,444	373,498	51,645	321,853
Single family	25,194	25,622	8,304	17,318
Multi-family	2,452	2,489	1,094	1,395
Industrial	6,818	6,929	3,004	3,925
Commercial	4,316	4,409	1,764	2,645
Hotel	231	223	111	112
Agriculture	74,744	74,703	303	74,400
Usable vacant	38,248	37,596	3,175	34,421
Other	218,441	221,527	33,890	187,637
STRUCTURES BY YEAR BUILT				
All structures	139,671	141,249	63,076	78,173
Before 1930	8,810	8,516	6,503	2,013
1930 to 1939	10,230	10,104	6,401	3,703
1940 to 1949	16,787	16,555	9,407	7,148
1950 to 1959	31,172	31,085	15,043	16,042
1960 to 1969	41,794	41,725	15,837	25,888
1970 to 1979	28,125	28,295	8,247	20,048
1980 and later	2,589	3,540	1,051	2,489
Not reported	164	1,429	587	842
DWELLING UNITS BY TYPE				
All dwelling units	239,061	243,461	140,720	102,741
Single family and duplex	126,996	129,967	55,769	74,198
Low density multi-family	10,715	10,779	1,015	9,764
High density multi-family	101,350	102,715	83,936	18,779

Source: City and County of Honolulu, Department of General Planning, records.

Table 197.-- LAND USE, FOR HAWAII COUNTY, 1982, AND MAUI AND KAUAI COUNTIES, 1972

[In acres]

Land use	Hawaii County (1982)	Maui County (Spring 1972)			Kauai County (May 1972)	
		Maui and Kahoolawe	Lanai	Molokai	Kauai	Niihau
All uses 1/	2,520,363	490,232	89,072	168,258	357,978	47,088
Residential	12,824	17,292	256	2,963	5,968	9
Manufacturing	633	774	-	754	177	3
Mfg. services 2/	1,564	657	54	54	5,880	7
Commercial 3/	431	233	13	38	113	-
Services 4/	35,584	30,986	80	810	2,336	385
Social and cultural 5/ .	1,919	1,302	15	93	361	5
Recreation 6/	250,057	18,778	89	34	5,224	-
Agriculture	811,424	197,900	15,020	37,199	167,650	43,381
Transportation 7/	2,172	776	165	24	1,273	-
Unused open spaces 8/ ..	1,403,755	221,534	73,380	126,289	168,996	3,298

1/ Excludes public streets and highways.

2/ Includes warehousing, construction services, and public utilities.

3/ Retail and wholesale trade.

4/ Includes commercial amusement and recreation, hotels, military installations, government offices, parking, cemeteries, personal services, business and repair services, professional services, and finance, insurance, and real estate.

5/ Educational, cultural, and religious.

6/ Excludes commercial amusement and recreation services.

7/ Includes airports, docks, and land transportation facilities.

8/ Includes vacant land, forest reserve, lakes, steep land, and undedicated streets.

Source: Hawaii County Planning Department, Hawaii County Land Use Inventory, 1982 (parcel file data); Hawaii State Department of Planning and Economic Development, Kauai County Land Inventory Report: 1972 (1974), and Maui County Land Inventory Report: 1972 (1974).

Table 198.-- LAND PARCELS, BY COUNTIES: 1983 AND 1984

[As of January 1]

Year	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
1983	385,432	200,394	45,173	118,266	21,599
1984	390,912	204,053	45,828	119,128	21,903

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 199.-- ACREAGE OF LAND USE CLASSES, BY COUNTIES: MARCH 15, 1984

[Based on land use classifications used for real property assessment purposes. Data exclude public streets and highways and other areas not in parcels of record, and also parcels occupied by condominium structures]

Land use class 1/	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
All uses 2/	4,037,028	370,746	753,041	2,514,623	398,618
Improved residential ...	59,341	38,190	6,046	11,054	4,051
Apartment	6,261	2,650	1,136	1,880	595
Commercial	4,920	2,589	620	1,259	452
Industrial	16,865	7,504	1,736	6,251	1,374
Agricultural	1,944,437	137,108	408,789	1,194,870	203,670
Conservation	1,944,206	147,780	327,542	1,284,585	184,299
Hotel and resort	1,578	209	854	313	202
Unimproved residential .	59,421	34,716	6,319	14,410	3,976

1/ Based on "Pitt codes" as established by the "Pittsburgh Law" of differential tax rates for real property assessment and taxation as specified in Sec. 246-10, Hawaii Revised Statutes, 1983 Supplement.

2/ Because of excluded categories, these totals differ from figures for total area shown elsewhere in the Data Book.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, printout dated March 15, 1984.

Table 200.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS: 1964 TO 1984

[Total acreage, including inland water, as classified by the Hawaii State Land Use Commission under the provisions of Chapter 205, Hawaii Revised Statutes. All data are approximate]

Year and month	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
1964: August ...	4,111,500	117,800	1,862,600	2,124,400	6,700
1969: August ...	4,111,500	140,163	2,009,087	1,955,875	6,375
1974: March	4,111,500	147,472	1,986,429	1,968,727	8,872
1975: February .	4,111,500	148,921	1,976,996	1,976,695	8,888
1977: January ..	4,111,500	149,263	1,976,996	1,976,327	8,914
1978: January ..	4,111,500	151,012	1,976,931	1,974,340	9,217
1979: January ..	4,111,500	151,929	1,976,106	1,974,230	9,235
1980: January ..	4,111,500	152,199	1,975,865	1,974,196	9,240
1981: January ..	4,111,500	154,319	1,975,836	1,972,104	9,241
1982: January ..	4,111,500	154,726	1,975,672	1,971,886	9,216
1983: January ..	4,112,388	156,413	1,975,473	1,971,279	9,223
1984: January ..	4,112,388	156,568	1,975,473	1,970,146	10,201

Footnotes and source follow next table.

Table 201.-- ESTIMATED ACREAGE OF LAND USE DISTRICTS, BY ISLANDS: JANUARY 1984

[See headnote of preceding table]

Island	Total area 1/	Classification by State Land Use Commission 2/			
		Urban	Conservation	Agricultural	Rural
State total	4,112,388	156,568	1,975,473	1,970,146	10,201
Hawaii	2,573,400	36,181	1,309,132	1,227,468	619
Maui	465,800	16,667	193,679	251,702	3,752
Kahoolawe	28,800	-	28,800	-	-
Lanai	90,500	2,338	38,203	47,239	2,720
Molokai	165,800	2,498	49,768	111,657	1,877
Oahu	386,188	87,895	154,859	143,434	-
Kauai	353,900	10,989	198,732	142,946	1,233
Niihau	45,700	-	-	45,700	-
Kaula and Lehua	400	-	400	-	-
Other islands 3/	1,900	-	1,900	-	-

1/ These totals differ somewhat from the official figures based on measurements by the Geography Division of the U.S. Bureau of the Census, cited in Section 5. The increase in the 1983 total area reflects additions to the Urban District on Oahu at Honolulu International Airport (Reef runway and South Ramp refill) created from former submerged lands.

2/ For definitions, see Hawaii Revised Statutes, 1976 Replacement, Section 205-2.

3/ The Northwestern Hawaiian Islands, from Nihoa to Kure Atoll, excluding Midway.

Source: Hawaii State Department of Planning and Economic Development, Land Use Commission, data supplied February 10, 1984.

Table 202.-- LAND OWNERSHIP, BY ISLANDS: SUMMER 1984

[In acres]

Island	All land 1/	Land owned by government 2/			Privately owned land 3/
		Federal	State	Counties	
State total 4/	3,931,393	327,610	1,197,797	15,203	2,390,782
Percent	100.0	8.3	30.5	0.4	60.8
Hawaii	2,491,011	218,564	836,645	1,312	1,434,489
Maui	402,900	26,872	96,628	1,285	278,115
Kahoolawe	28,800	28,800	-	-	-
Molokini	19	19	-	-	-
Lanai	88,984	8	119	24	88,833
Molokai	170,083	133	47,462	248	122,240
Oahu	350,984	49,784	65,876	11,603	223,721
Kauai	351,394	3,174	150,810	730	196,679
Niihau	46,705	-	-	-	46,705
Lehua and Kaula	512	256	256	-	-

1/ Because of the omission of public thoroughfares and for other reasons, totals by island may differ considerably from official area estimates in other tables in this volume.

2/ State land ceded by presidential proclamation or governor's executive order to the federal government appears in most cases to have been classified for this table as federal land, even though title to it technically remains with the state. Land ceded by the state to the counties, in contrast, has probably been classified as state land. For both types of ceded land, treatment may have varied from parcel to parcel.

3/ For data on the leasehold status of privately owned land, see the two following tables.

4/ Data exclude the Northwestern Hawaiian Islands (1,722 acres).

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, records.

Table 203.-- PRIVATELY OWNED LAND, LEASED AND UNLEASED, BY ISLANDS: 1968-1982

[In acres]

Island	Survey date	All private land	Not leased	Leased 1/
State total	...	2,304,663	1,790,057	514,605
Hawaii	1982	1,293,718	943,853	349,865
Maui	1972	293,478	255,272	38,206
Kahoolawe	1972	-	-	-
Lanai	1972	88,892	88,882	10
Molokai	1972	126,764	104,089	22,674
Oahu	1978	249,501	165,727	83,774
Kauai	1972	205,605	185,529	20,076
Niihau	1972	46,705	46,705	-
Other islands 2/	1968	-	-	-

1/ To either governmental or private lessees. For Oahu data by type of lessee, see the following table.

2/ Lehua, Kaula, and the Northwestern Hawaiian Islands (except Midway).

Source: Hawaii County Planning Department, Hawaii County Land Use Inventory, 1982 (parcel file data); Hawaii State Department of Planning and Economic Development, Hawaii Urban Planning Information Center, Land Inventory Report: 1972 for Maui County (1974, pp. 25-26) and Kauai County (1974, pp. 25 and 29), and underlying data; Hawaii State Department of Land and Natural Resources, Report to the Governor 1973-1974, p. 54 (for Lehua, Kaula, and the N.W.H.I.); Honolulu Department of General Planning records.

Table 204.-- LAND OWNERSHIP AND CONTROL, FOR OAHU: 1978

[In acres]

Lessee	Owner				
	All owners	Federal	State	City and County	Private
Total land ..	373,216	50,634	62,074	11,007	249,501
None	272,532	45,990	50,045	10,770	165,727
Federal	2,816	-	2,706	-	110
State	193	33	-	157	3
City and County ..	1,187	25	1,148	-	14
Private	96,488	4,586	8,175	80	83,647

Source: City and County of Honolulu, Department of General Planning, records.

Table 205.-- ACRES IN HAWAII OWNED IN FEE BY SELECTED MAJOR LANDOWNERS: 1964 TO 1983

[Some of these figures are not exact accountings of acres owned but are the landowners' best estimates]

Landowner	1964	1981	1982	1983
Bernice P. Bishop Estate	369,700	341,546	341,512	341,379
Richard S. Smart (Parker Ranch) 1/	185,610	120,000	139,301	139,301
Castle and Cooke, Inc. 2/	154,759	150,198	149,976	149,681
C. Brewer and Company, Ltd.	145,147	98,604	96,700	95,100
Samuel M. Damon Estate	143,842	121,659	121,659	121,659
Alexander and Baldwin, Inc.	122,788	95,300	95,300	94,966

1/ The total size of the Parker Ranch in 1983, including leased land, was 220,000 acres.

2/ Mililani Town acreage included through 1981 but excluded thereafter.

Source: Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 17; data for 1981 and later years supplied by landowners listed.

Table 206.-- ACRES IN HAWAII OWNED BY LARGE AND SMALL LANDOWNERS: 1964 AND 1983

Ownership	1964	1983
Land area of State 1/	4,105,600	3,930,629
Owned by government	1,958,224	1,521,558
Owned privately	2,147,376	2,409,071
Six large owners 2/	1,121,846	942,086
All others	1,025,530	1,466,985
Percent of total land area	100.0	100.0
Owned by government	47.7	38.7
Owned privately	52.3	61.3
Six large owners 2/	27.3	24.0
All others	25.0	37.3
Percent of privately owned land	100.0	100.0
Six large owners	52.2	39.1
All others	47.8	60.9

1/ Because of the omission of public thoroughfares and for other reasons, totals may differ from official area estimates in other tables of this volume.

2/ For names, see preceding table.

Source: Legislative Reference Bureau, Public Land Policy in Hawaii: Major Landowners, Report No. 3 (1967), p. 99; The State of Hawaii Data Book 1983, tables 172 and 175; preceding table.

Table 207.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1980 TO 1982

Subject	Sept. 30, 1980	Sept. 30, 1981 1/	Sept. 30, 1982 2/
OWNED			
Number of installations	308	310	310
Land area, total (acres)	693,381.8	690,752.7	700,653.7
Urban	88,493.3	88,433.9	88,568.5
Rural	604,888.5	602,318.8	612,085.2
Number of buildings	14,888	13,769	14,627
Cost, total ($1,000) 3/	1,733,924	1,598,942	1,759,616
Land	231,852	76,379	76,879
Buildings	867,167	892,349	998,906
Structures and facilities	634,905	630,214	683,831
Predominant usage (acres):			
Agriculture and grazing	-	-	-
Forest and wildlife	255,620.2	255,620.2	255,620.2
Parks and historic sites	228,904.1	229,172.5	238,832.1
Power development and distribution	-	-	-
Reclamation and irrigation	-	-	-
Office building locations	54.6	53.3	54.8
Military, excluding airfields	121,883.0	119,036.0	121,069.2
Airfields	6,239.4	6,224.1	6,224.1
Harbor and port facilities	23.6	23.6	23.6
Flood control and navigation	1,480.8	1,460.9	1,457.5
Vacant	3.0	3.0	3.0
Institutional	359.5	359.5	358.0
Housing	84.2	84.2	84.2
Storage	836.0	836.0	833.1
Industrial	2,260.6	2,261.6	2,387.9
Research and development	7.7	7.7	7.7
Other land	75,625.1	75,610.1	73,698.3
LEASED			
Number of leases	251	237	275
Land area, total (acres)	51,250.9	50,064.4	50,527.7
Urban	216.1	147.2	219.6
Rural	51,034.8	49,917.2	50,308.1
Number of building locations	155	152	163
Floor area of buildings (sq. ft.)	320,100	299,771	308,839
Annual rental ($1,000)	1,489	1,675	1,882

Footnote and source on next page.

Table 207.-- REAL PROPERTY OWNED BY OR LEASED TO THE FEDERAL GOVERNMENT: 1980 TO 1982 -- Con.

1/ Number of installations corrected from figure published in source and cited in *Data Book 1983*, table 176.

2/ Total, rural, and military acreage corrected from figures published in source and cited in *Data Book 1983*, table 176.

3/ At time of acquisition. Includes estimated equivalent cost of properties acquired through donation, exchange, devise, forfeiture, or judicial process.

Source: General Services Administration, *Summary Report on Real Property Owned by the United States Throughout the World* (annual) and *Summary Report on Real Property Leased to the United States Throughout the World* (annual). The 1981 and 1982 data were corrected by GSA on March 23, 1984.

Table 208.-- DEPARTMENT OF HAWAIIAN HOME LANDS ACREAGE, LESSEES, AND APPLICANTS, BY ISLANDS: JUNE 30, 1983

[The Department of Hawaiian Home Lands administers land set aside for the benefit of qualified native Hawaiians, who receive homestead leases and financial assistance from the Department]

Island	Acreage		Lessees		Applicant list	
	Total	In home-stead use	Farm and ranch	Home-stead	Farm and ranch	Home-stead
State total ..	186,087	27,439	471	2,866	1,175	6,768
Hawaii	107,450	18,647	203	595	776	1,333
Maui	29,004	17	-	89	60	568
Molokai	25,637	7,788	263	117	173	317
Oahu	6,112	439	2	1,878	7	4,093
Kauai	17,884	548	3	187	159	457

Source: Department of Hawaiian Home Lands, *'Aina Ho'opulapula. Annual Report, 1982-83*, pp. 13, 14, 15, 22, and 23.

Table 209.-- STATE PUBLIC LAND INVENTORY, BY COUNTIES: APRIL 30, 1984

[In thousands of acres. These State Government owned lands exclude some land owned by the following State agencies: the Department of Hawaiian Home Lands, the Hawaii Housing Authority, the Department of Transportation, and the University of Hawaii]

Type of document authorizing use	State total	City and County of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	1,206.8	55.7	154.1	863.6	133.3
General lease 1/	252.8	6.0	10.5	207.3	29.1
Revocable permit 2/	99.0	3.1	22.8	63.0	10.1
Executive order 3/	40.7	9.3	4.6	17.1	9.7
Executive order for forest reserves	110.1	6.5	33.5	66.5	3.6
Governor proclamation for forest reserves	628.6	22.5	74.9	453.6	77.1
Other parcels in use 4/ ..	3.5	1.7	0.2	1.5	0.1
Unencumbered 5/	72.1	6.6	7.6	54.6	3.4

1/ Long-term leases. Mostly agricultural and pasture land.

2/ Month-to-month leases. Mostly agricultural and pasture land.

3/ Used for State and County Government facilities such as parks, schools, harbors, airports, baseyards and office buildings.

4/ Parcels used by the public for which no document has been issued, such as roadways, school lots, cemeteries and walkways. Also includes unresearched encumbrances such as homestead leases.

5/ Parcels with no documents on them and not in use.

Source: Hawaii State Department of Land and Natural Resources, Land Management Division, records.

Section 7

RECREATION AND TOURISM

Statistics on tourism, recreation, sports, museums, pets, parks, and the performing arts appear in this section. Additional information on recreational land use is given in section 6; on transportation, in section 18; and on hotels, in section 23.

Approximately 4,368,000 visitors stayed overnight or longer in Hawaii during 1983, compared with 2,631,000 in 1973 and only 297,000 in 1960. The average number present at any given time during 1983 was 108,000. Total visitor expenditures (exclusive of trans-Pacific fares) in 1983 amounted to $4 billion, compared with $1 billion a decade earlier. The 1983 visitor total included 2.9 million from other States, 268,000 from Canada, and 729,000 from Japan. Expenditures per visitor day in 1980 averaged $71.24 for westbound visitors and $185 for the Japanese. Visitor-related spending in 1983 resulted in tax revenues of $477 million and generated 164,500 jobs.

Both visitors and residents have access to a wide range of recreational and cultural facilities. The State has seven National parks and similar areas, 74 State parks, 626 County parks, 57 golf courses, 259 public tennis courts, 2,023 small-boat moorages, 1,600 recognized surfing sites, and 24.4 miles of safe, sandy, accessible beach. Recreational and cultural facilities reporting more than a million annual visitors each include Hawaii Volcanoes National Park, the National Memorial Cemetery of the Pacific, U.S.S. Arizona Memorial, Wailua River State Park, Castle Park, and the Honolulu Zoo. Total visits to 45 museums, state monuments and similar attractions in 1983 numbered 13 million. About 237,000 Hawaii residents traveled to the Mainland in 1983. Thirteen theatrical groups on Oahu reported 1,376 performances of 502 productions for the 1982-1983 season, with a combined audience of 937,000. During the same period, the Honolulu Symphony Orchestra gave 142 concerts, with a total attendance of 204,000. Professional baseball drew 145,000 fans in 1983, and during the 1983-1984 school year, attendance at UH-Manoa varsity baseball, basketball and football home games exceeded 502,000.

Information on recreation and tourism is issued periodically by the Hawaii Visitors Bureau (particularly in its Annual Research Report), the State Parks Division of the Department of Land and Natural Resources, the U.S. National Park Service, U.S. Passport Office, County park and recreation departments, and other organizations. Long-term trends are summarized in Historical Statistics of Hawaii, Section 11. National statistics are given in Section 8 of Statistical Abstract of the United States: 1984.

Table 210.-- MODE AND DIRECTION OF TRAVEL OF PASSENGERS ARRIVING IN HAWAII: 1973 TO 1983

Year	All arriving passengers	Mode of travel		Direction of travel	
		Air	Surface	Westbound	Eastbound or northbound
1973	3,624,667	3,598,312	26,355	2,696,415	928,252
1974	3,882,957	3,861,208	21,749	2,802,465	1,080,492
1975	3,849,525	3,832,790	16,735	2,806,524	1,043,001
1976	4,340,442	4,324,029	16,413	3,205,779	1,134,663
1977	4,544,802	4,530,817	13,985	3,434,979	1,109,823
1978	4,784,561	4,776,977	7,584	3,664,351	1,120,210
1979	5,291,333	5,283,771	7,562	3,839,041	1,452,292
1980	5,380,383	5,380,383	-	3,861,059	1,519,324
1981	5,305,809	5,305,809	-	3,780,383	1,525,426
1982 1/ .	5,580,240	5,580,240	-	4,078,360	1,501,880
1983	5,546,540	5,546,540	-	4,098,740	1,447,800

1/ Revised from Data Book 1983, table 179.
Source: Hawaii Visitors Bureau, 1983 Annual Research Report.

Table 211.-- RESIDENCE STATUS OF WESTBOUND PASSENGERS ARRIVING IN HAWAII: 1973 TO 1983

Year	All westbound passengers	Visitors destined to Hawaii	Visitors destined beyond Hawaii		Returning residents	Intended residents	Unclassified
			Overnight or longer	In transit			
1973 ...	2,696,415	1,815,443	252,418	396,508	194,974	36,886	186
1974	2,802,465	1,899,632	284,988	426,507	154,154	37,007	177
1975	2,806,524	1,935,396	272,021	381,419	178,040	39,233	415
1976	3,205,779	2,245,252	306,349	426,666	186,684	40,690	138
1977	3,434,979	2,453,541	309,771	448,521	179,298	43,617	231
1978 1/ .	3,664,351	2,698,831	332,168	436,942	156,901	39,476	33
1979 1/ .	3,839,041	2,805,813	333,642	546,113	130,914	22,559	-
1980 1/ .	3,861,059	2,718,863	327,269	603,206	197,799	13,922	-
1981	3,780,383	2,611,142	363,649	556,730	230,728	18,134	-
1982 2/ .	4,078,360	2,896,255	382,270	488,725	290,040	21,070	-
1983	4,098,740	3,086,995	309,120	444,180	236,725	21,720	-

1/ Decline in returning and intended residents probably reflects increased nonresponse rates resulting from revised questionnaire format used from July 1978 to July 1979.

2/ Revised from Data Book 1983, table 180.

Source: Hawaii Visitors Bureau, 1983 Annual Research Report.

Table 212.-- VISITOR ARRIVALS AND AVERAGE VISITOR CENSUS: 1964 TO 1983

Year	Visitors staying overnight or longer			Average number present		
	Total	West-bound 1/	Other	Total	West-bound 1/	Other
1964	563,925	460,290	103,635	16,037	14,901	1,136
1965	686,928	567,218	119,710	17,369	16,057	1,312
1966	835,456	686,886	148,570	20,918	19,271	1,647
1967	1,124,818	893,103	231,715	27,630	24,898	2,732
1968	1,314,571	1,015,844	298,727	32,335	28,784	3,551
1969	1,527,012	1,181,029	345,983	37,198	33,088	4,110
1970	1,746,970	1,326,135	420,835	36,943	32,028	4,915
1971	1,818,944	1,430,325	388,619	40,889	36,504	4,385
1972	2,244,377	1,782,737	461,640	50,143	45,098	5,045
1973	2,630,952	2,067,861	563,091	59,578	53,407	6,171
1974	2,786,489	2,184,620	601,869	63,535	56,939	6,596
1975	2,829,105	2,207,417	621,688	66,308	59,495	6,813
1976	3,220,151	2,551,601	668,550	75,532	68,225	7,307
1977	3,433,667	2,763,312	670,355	83,030	75,684	7,346
1978	3,670,309	3,030,999	639,310	92,034	85,028	7,006
1979	3,960,531	3,139,455	821,076	98,676	89,678	8,998
1980	3,934,504	3,046,132	888,372	96,497	86,788	9,709
1981	3,934,623	2,974,791	959,832	95,968	85,449	10,519
1982 2/ .	4,242,925	3,278,525	964,400	105,310	94,740	10,570
1983	4,368,105	3,396,115	971,990	108,045	97,395	10,650

1/ Arriving from the Mainland United States or Canada.

2/ Revised from Data Book 1983, table 181.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 213.-- RESIDENCE OF OVERNIGHT AND LONGER VISITORS TO HAWAII: 1980 TO 1983

[Approximate figures, in thousands]

Place of residence	1980	1981	1982	1983
Total	3,935.0	3,935.0	4,243.0	4,368
United States	2,456.0	2,314.0	2,600.0	2,906
Foreign	1,479.0	1,621.0	1,643.0	1,462
Asia	817.5	878.0	897.0	818
Japan	658.1	690.4	715.0	729
Other Asia	159.4	187.6	182.0	89
Canada	331.8	291.0	303.0	268
Europe	80.2	169.0	115.0	68
United Kingdom	46.9	96.2	77.3	39
West Germany	17.6	28.9	30.0	20
Other Europe	15.7	43.9	7.7	9
Oceania and South Pacific	230.1	252.0	301.0	274
Australia	164.1	171.9	220.0	167
New Zealand	57.3	68.5	75.0	67
Other South Pacific	8.7	11.6	6.0	40
Other foreign	4.5	3.0	27.0	34

Source: Hawaii Visitors Bureau, tabular release dated July 1984.

Table 214.-- WESTBOUND VISITOR ARRIVALS, BY COUNTIES VISITED: 1973 TO 1983

[Covers westbound visitors staying overnight or longer anywhere in the State, and any overnight or non-overnight interisland trips reported by these visitors]

Year	State total 1/	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1973 ...	2,067,861	1,785,485	694,170	590,475	766,791
1974 2/	2,184,620	1,877,845	742,839	601,703	852,204
1975 ...	2,207,417	1,889,790	769,779	632,821	931,863
1976 ...	2,551,601	2,169,850	816,514	699,275	1,110,726
1977 ...	2,763,312	2,295,310	839,008	740,501	1,257,142
1978 ...	3,030,999	2,494,890	908,983	837,712	1,403,054
1979 ...	3,139,455	2,542,720	860,940	825,366	1,419,773
1980 ...	3,046,132	2,398,740	761,103	781,409	1,378,189
1981 ...	2,974,791	2,398,480	672,683	757,811	1,389,892
1982 2/	3,278,525	2,589,190	678,170	733,295	1,550,080
1983 ...	3,396,115	2,591,635	712,380	691,940	1,644,605

1/ Because many visitors visited more than one county, county data sum to totals greater than the State totals shown here.

2/ Revised from Data Book 1983, table 183.

Source: Hawaii Visitors Bureau, tabular release dated July 1984 and records.

Table 215.-- AVERAGE VISITOR CENSUS, BY COUNTIES: 1970 TO 1983

Year	State total	City and Co. of Honolulu	Hawaii County	Kauai County	Maui County
1970 ...	36,943	26,699	3,588	3,011	3,645
1971 ...	40,889	28,323	4,349	3,535	4,682
1972 ...	50,143	34,707	5,153	4,136	6,147
1973 ...	59,578	43,341	5,477	4,206	6,554
1974 ...	63,535	45,486	6,024	4,484	7,541
1975 ...	66,308	46,140	6,496	4,941	8,731
1976 ...	75,532	52,683	6,782	5,445	10,622
1977 ...	83,030	57,342	7,195	6,025	12,468
1978 ...	92,034	62,379	8,094	7,069	14,492
1979 ...	98,676	67,688	7,996	7,394	15,598
1980 ...	96,497	66,680	7,195	7,259	15,363
1981 ...	95,968	66,455	6,561	7,225	15,727
1982 1/	105,310	73,445	6,725	7,050	18,090
1983 ...	108,045	66,695	8,690	7,990	24,670

1/ Revised from Data Book 1983, table 183.
Source: Hawaii Visitors Bureau, records.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1973 TO 1983

Year	Residence 1/ (percent)		Males per 1,000 females	Median age (years)	High status occupations 2/ (percent)	Persons per party
	Western states 7/	California				
1973	39.4	25.5	762	44.0	56.4	1.69
1974	38.2	24.4	788	44.1	59.3	1.72
1975	39.7	24.8	810	44.5	60.4	1.75
1976	37.9	24.0	787	44.8	58.4	1.75
1977	40.2	25.8	802	43.2	58.8	1.78
1978	41.3	26.0	810	42.9	59.8	1.81
1979	43.1	25.7	823	41.7	60.1	1.80
1980	47.1	30.6	829	41.3	62.0	1.79
1981	45.8	30.3	810	40.2	61.0	1.82
1982 8/ ..	44.2	29.5	789	39.1	61.5	1.82
1983	49.1	34.3	825	39.8	61.7	1.83

Year	Arriving June 1-Aug. 31 (percent)	Repeat visitors 3/ (percent)	Pleasure trip (percent)	Staying in hotel 4/ (percent)	Average intended stay 5/ (days)	Intending to visit Neighbor Islands 6/ (percent)
1973 8/ ..	30.2	34.4	78.3	...	10.7	58.8
1974	28.6	37.3	78.2	...	10.7	62.0
1975	28.6	39.7	76.4	...	10.8	66.0
1976	28.3	38.7	79.0	...	10.7	65.6
1977	27.3	41.1	78.6	...	10.9	66.8
1978	26.7	42.8	76.5	...	11.2	68.2
1979	27.0	44.1	76.7	74.4	11.2	68.5
1980	28.6	48.4	75.4	71.2	11.2	68.3
1981 8/ ..	28.4	47.2	77.7	70.1	11.3	67.0
1982 8/ ..	27.9	45.9	80.4	64.6	11.2	67.3
1983	28.9	50.4	77.8	61.7	11.0	66.9

Footnotes and source on next page.

Table 216.-- SUMMARY CHARACTERISTICS OF WESTBOUND VISITORS TO HAWAII: 1973 TO 1983 -- Con.

1/ Base includes estimated number of visitors arriving directly from Canada and usually omitted from the Hawaii Visitors Bureau Basic Data Survey.

2/ Party heads only. Calculated as the number of professional, technical, business, managerial and official workers as a percent of all party heads responding to this question.

3/ Party heads only.

4/ Excludes condominiums operating as hotels. Data for years before 1979 are not comparable in coverage.

5/ Computed from total visitor days and total visitor arrivals for westbound visitors destined for Hawaii. These data differ somewhat from corresponding data in the source, because of different computation procedures.

6/ Base includes passengers who did not answer this question.

7/ Pacific and Mountain States.

8/ Revised from Data Book 1983, table 184.

Source: Hawaii Visitors Bureau, Annual Research Report (annual) and records.

Table 217.-- VISITOR INDUSTRY PROJECTIONS: 1982 TO 2005

[Series M-F projections, recommended by DPED for State planning purposes]

Year	Visitor arrivals (1,000)	Average visitor census (1,000)		Hotel employment (1,000)		Visitor and crew expenditures (millions of 1980 dollars)
		State total	Oahu only	State total	Oahu only	
1982 (est.) ..	4,243	105	72	26.5	14.7	3,172
1985	5,000	124	81	28.3	15.1	3,670
1990	6,083	156	95	31.8	16.2	4,477
1995	7,052	179	102	35.0	16.8	5,190
2000	7,786	198	107	36.9	17.0	5,731
2005	8,183	208	112	37.1	17.1	6,023

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 20.

Table 218.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1982 AND 1983

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1982 1/	1983	1982 1/	1983
All visitors	2,896,255	3,086,995	382,270	309,120
Age:				
Under 10 years	77,030	105,305	26,040	21,710
10 to 19 years	213,460	230,525	33,385	24,810
20 to 29 years	556,950	527,445	79,090	61,400
30 to 39 years	574,245	600,965	83,000	63,580
40 to 49 years	474,595	518,325	57,665	45,765
50 to 59 years	450,775	469,510	43,980	35,590
60 years and over	392,170	453,505	29,385	27,385
Age not reported	157,030	181,415	29,725	28,880
Sex:				
Male	1,277,075	1,395,880	209,025	169,740
Female	1,619,180	1,691,115	173,245	139,380
Intended length of stay:				
2 days	253,430	306,215	35,390	30,480
3 days			81,755	65,645
4 to 6 days			176,215	139,095
7 to 12 days	1,796,985	1,959,285	71,250	57,410
13 to 18 days	643,230	632,290	17,660	16,490
19 to 24 days	115,005	99,810		
25 to 30 days	43,350	41,625		
31 to 60 days	40,115	41,815		
61 to 90 days	3,600	5,000		
91 to 365 days	540	955		
Residence: 2/				
Pacific	1,058,285	1,175,765	13,560	18,945
Alaska	24,650	22,170	500	515
California	832,965	962,375	10,380	15,020
Oregon	65,565	63,185	705	1,065
Washington	135,105	128,035	1,975	2,345
Mountain	190,755	202,995	2,620	3,840
West North Central	153,880	147,560	1,950	3,090
West South Central	193,500	198,810	4,210	5,410
East North Central	279,625	264,925	4,745	5,285
East South Central	44,035	46,350	1,135	1,490

Continued on next page.

Table 218.-- CHARACTERISTICS OF WESTBOUND VISITORS TO AND BEYOND HAWAII: 1982 AND 1983 -- Con.

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1982 1/	1983	1982 1/	1983
Residence -- con. 2/				
New England	80,835	80,575	2,245	2,800
Middle Atlantic	292,985	229,930	6,815	6,575
South Atlantic	154,395	172,275	6,455	8,185
Guam, Puerto Rico, Virgin Isl.	125	210	3,275	2,785
Canada	261,700	224,470	5,640	6,115
Other foreign	113,730	60,375	326,310	231,410
Residence not reported	72,405	282,755	3,310	13,190
Purpose of trip:				
Pleasure	2,310,370	2,373,195	315,030	243,350
Business	61,815	82,775	14,075	14,625
Business and pleasure	326,455	366,850	28,135	23,335
Government and military	12,325	16,390	5,200	6,285
Visiting relatives	82,550	112,920	6,925	7,665
Attend school	2,230	3,455	315	315
Convention	70,120	82,475	2,180	2,815
Other	8,890	11,180	4,700	3,570
Purpose not reported	21,500	37,755	5,710	7,160
Traveler status:				
Organized tour group	564,355	551,255	81,060	57,600
Individual basis	2,163,210	2,278,660	285,840	227,790
Incentive	126,615	126,115	5,700	4,800
Government/military	12,325	16,550	5,175	6,305
No answer	29,750	114,415	4,495	12,625
Intended accommodations:				
Hotel	1,857,305	1,895,585	320,845	253,265
Condominium	513,315	600,105	30,750	23,190
Hotel and condominium	200,655	205,730	2,695	2,915
Friend's or relative's home	253,465	299,560	19,905	19,830
Other accommodations	52,250	72,410	6,215	7,180
Not reported	19,265	13,605	1,860	2,740
Visitor days (1,000)	32,481	33,820	2,099	1,729

1/ Revised from Data Book 1983, table 186.
2/ Census divisions.
Source: Hawaii Visitors Bureau, 1983 Annual Research Report.

Table 219.-- CHARACTERISTICS OF WESTBOUND VISITOR PARTY HEADS TO AND BEYOND HAWAII: 1982 AND 1983

[Data limited to visitors staying overnight or longer]

Subject	Visitors to Hawaii		Visitors beyond Hawaii	
	1982 1/	1983	1982 1/	1983
All party heads	1,588,005	1,684,695	230,240	187,610
Occupation:				
Professional and technical ...	562,280	603,060	71,495	59,035
Business, managerial, official	396,245	410,955	70,245	51,385
Clerical, office, sales	163,435	149,395	19,660	15,110
Military service	15,390	19,610	4,015	4,795
Other employed	117,140	112,775	15,190	12,225
Military dependent	2,290	3,115	410	350
Retired	180,090	215,305	14,505	14,635
Student	69,295	77,640	18,495	14,930
Other non-employed	53,550	52,850	10,440	8,625
Not reported	28,290	39,990	5,785	6,520
Trips to Hawaii:				
First trip	805,050	771,480	117,755	89,990
Second trip	268,470	293,870	38,215	31,380
Third trip	128,865	144,890	16,080	13,190
Fourth trip and over	284,345	344,690	35,685	32,365
Not reported	101,275	129,765	22,505	20,685
Persons in party:				
1 person	318,920	346,275	83,760	69,960
2 persons	916,930	944,825	70,715	58,195
3 persons	131,915	144,420	20,650	18,070
4 persons	136,680	146,645	34,735	25,810
5 persons or more	83,560	102,530	20,380	15,575
Average size	1.82	1.83	1.48	1.41

1/ Revised from Data Book 1983, table 187.
Source: Hawaii Visitors Bureau, 1983 Annual Research Report.

Table 220.-- FAMILY INCOME, TRIP CHARACTERISTICS, AND OPINIONS OF MAINLAND VISITORS TO HAWAII: 1979 TO 1982

Subject	1979	1980	1981	1982
Number of respondents in sample	5,353	5,180	4,984	5,810
Family income before taxes (percent) ..	100.0	100.0	100.0	100.0
Under $15,000	14.0	10.3	7.5	6.0
$15,000 to $24,999	23.5	19.4	16.6	16.3
$25,000 to $34,999	26.2	24.1	22.2	21.7
$35,000 to $49,999	19.2	24.0	24.8	24.4
$50,000 and over	17.1	22.2	28.9	31.6
Median income (dollars)	29,800	33,400	37,300	38,700
Education: college graduates (percent)	53.6	54.5	57.6	56.0
Using travel agent (percent)	84.1	79.6	79.0	78.7
Islands visited (percent):				
Oahu only	24.6	26.6	27.2	29.2
Hawaii	34.3	30.2	24.5	22.7
Maui	56.8	53.4	54.0	52.7
Kauai	35.9	34.6	33.0	27.3
Molokai	0.6	0.6	0.6	0.5
Hawaii compared with other vacation areas visited (percent)	100.0	100.0	100.0	100.0
Far superior	35.2	35.2	37.0	37.9
Above average	53.7	54.2	53.9	53.3
Average	9.9	9.4	8.3	7.8
Below average	1.1	1.0	0.7	0.8
Quite inferior	0.1	0.1	0.2	0.1

Source: Hawaii Visitors Bureau, Visitor Reaction Survey (annual summaries).

Table 221.-- MEETINGS AND CONVENTIONS: 1978 TO 1983

Year	No. of meetings held	Estimated attendance	Estimated guest rooms	Estimated revenue ($1,000)
1978	536	230,273	106,963	113,135
1979	574	178,753	88,481	94,049
1980	546	230,891	104,045	141,544
1981	505	181,662	84,142	134,164
1982	439	167,558	78,589	123,748
1983	420	211,764	(NA)	156,396

NA Not available.

Source: Hawaii Visitors Bureau, Meetings and Conventions Department.

Table 222.-- MEETINGS AND CONVENTIONS, BY ISLANDS: 1983

Island	Number of meetings held	Estimated attendance
State total 1/	420	211,764
Hawaii:		
Hilo	3	653
Kona	52	9,846
Maui	148	39,452
Molokai	2	150
Oahu	216	157,378
Kauai	27	5,264

1/ Because some meetings took place on more than one island, detail may not add to indicated totals.

Source: Hawaii Visitors Bureau, Meetings & Conventions Department.

Table 223.-- AVERAGE EXPENDITURE PER VISITOR DAY, FOR THE STATE AND OAHU: 1931-1932 TO 1980

[Dollars]

Years surveyed	Westbound visitors: Statewide	Westbound visitors: Oahu only	Visitors from Japan: Statewide
1931-1932	(NA)	17.50	(NA)
1951	28.00	(NA)	(NA)
1960-1961	32.00	(NA)	(NA)
1965-1966	(NA)	37.23	(NA)
1974	46.20	46.75	123.00
1977	54.62	54.17	146.85
1980	71.24	69.24	185.00

NA Not available.

Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), p. 31.

Table 224.-- VISITOR EXPENDITURES, BY ORIGIN OF VISITOR AND TYPE OF EXPENDITURE: 1980

[Excludes transpacific travel costs]

Item	Aggregate expenditures (millions of dollars)			Expenditures per visitor day (dollars)	
	All visitors	Non-Japanese	Japanese 1/	Non-Japanese	Japanese 1/
All items	2,874.8	2,347.6	527.2	71.24	185.00
Food and beverage	735.2	628.1	107.1	19.06	37.55
Restaurants 2/	...	436.3	...	13.24	35.89
Nightclubs	...	64.9	...	1.97	1.66
Dinner shows	...	54.1	...	1.64	...
Groceries	...	72.8	...	2.21	...
Entertainment	132.0	110.4	21.6	3.35	7.59
Attractions	...	74.5	...	2.26	...
Other	...	35.9	...	1.09	...
Transportation	324.4	254.7	69.7	7.73	24.46
Ground transportation 3/ ...	...	40.5	...	1.23	2.96
U-drive	...	100.8	...	3.06	...
Interisland travel	...	84.4	...	2.56	21.50
Sightseeing tours	...	29.0	...	0.88	...
Clothing	212.8	179.6	33.2	5.43	11.66
Gifts and souvenirs	391.7	201.4	190.3	6.11	66.78
Lodging	879.3	813.3	66.0	24.68	23.17
All other	156.9	117.6	39.3	3.57	13.79
Adjustment 4/	42.5	42.5	-	1.29	-

1/ Detail for sub-items not available in all cases.

2/ For Japanese visitors, refers to total expenditures for food.

3/ For Japanese visitors, refers to total transportation expenditures excluding interisland travel.

4/ Estimated amount of underreporting for listed categories.

Source: Hawaii Visitors Bureau, 1980 Visitor Expenditure Survey (January 1982), pp. 4, 34, and 37.

Table 225.-- ESTIMATED EXPENDITURES BY VISITORS TO HAWAII, BY COUNTIES: 1973 TO 1983

[Millions of dollars. Excludes expenditures by Hawaii residents]

Year	State total	City and County of Honolulu 1/	Other counties 1/			
			Total	Hawaii	Kauai	Maui
1973	1,020	777	243.0	81.9	63.2	97.9
1974	1,225	928	297.5	99.3	73.9	124.3
1975	1,360	1,004	355.9	114.6	87.2	154.1
1976	1,640	1,213	427.2	126.8	101.8	198.6
1977	1,845	1,377	468.5	131.2	109.9	227.4
1978	2,146	1,569	577.0	152.9	137.9	286.9
1979 2/ ...	2,537	1,867	669.8	162.0	159.1	348.7
1980	2,875	2,097	777.5	187.6	189.3	400.6
1981	3,200	2,394	805.9	179.2	197.3	429.4
1982 2/ ...	3,700	2,748	951.8	200.9	210.6	540.3
1983 3/ ...	4,000	2,696	1,304.1	274.1	252.0	778.0

1/ Interisland air fares have been distributed on a prorata basis. Expenditures by eastbound visitors have been included with Oahu.

2/ Revised from Data Book 1983, table 192.

3/ Preliminary estimate.

Source: Hawaii Visitors Bureau, tabular release dated July 1984.

Table 226.-- ESTIMATED DIRECT VISITOR-RELATED EXPENDITURES: 1970 TO 1983

[In millions of dollars]

Year	Total	Visitors	Airline and ship crews	Overseas airlines 1/
1970	714.6	595.0	8.0	111.6
1971	835.8	705.0	8.0	122.8
1972	982.2	840.0	9.0	133.2
1973	1,181.6	1,020.0	8.0	153.6
1974	1,408.6	1,225.0	12.6	171.0
1975	1,559.4	1,360.0	8.4	191.0
1976	1,890.8	1,640.0	6.8	244.0
1977	2,093.8	1,845.0	7.8	241.0
1978	2,427.4	2,146.0	11.4	270.0
1979	2,947.7	2,537.0	11.6	399.1
1980	3,406.2	2,875.0	13.2	518.0
1981	3,775.0	3,200.0	15.0	560.0
1982	4,235.0	3,700.0	15.0	520.0
1983	4,509.0	4,000.0	14.0	495.0

1/ Includes payroll, fuel taxes, and landing fees.
Source follows next table.

Table 227.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES: 1970 TO 1983

Year	Visitor-related expenditures (million dollars)	Total sales or output 1/ (million dollars)	Household income (million dollars)	State and county tax revenues (million dollars)	Jobs 1/ (1,000)
1970	714.6	1,318.1	469.1	72.4	71.0
1971	835.8	1,538.6	549.5	86.1	80.8
1972	982.2	1,806.0	647.3	100.8	88.2
1973	1,181.6	2,175.4	782.2	127.4	96.3
1974	1,408.6	2,582.7	932.0	151.1	109.7
1975	1,559.4	2,815.2	1,017.5	180.7	110.9
1976	1,890.8	3,332.9	1,206.8	217.9	120.2
1977	2,093.8	3,699.7	1,341.8	229.6	125.2
1978	2,427.4	4,322.3	1,568.6	268.9	133.2
1979	2,947.7	5,145.8	1,867.0	328.9	143.3
1980	3,406.2	5,868.4	2,130.8	377.1	148.7
1981	3,775.0	6,450.0	2,340.0	415.0	149.5
1982 2/ .	4,235.0	7,310.0	2,660.0	440.5	161.1
1983	4,509.0	7,725.5	2,826.1	477.4	164.5

1/ Direct, indirect, and induced.

2/ Revised from Data Book 1983, table 194.

Source: Hawaii State Department of Planning and Economic Development, The Economic Impact of Tourism in Hawaii: 1970 to 1980, Research Report 1983-2 (April 1983), and unpublished 1981, 1982 and 1983 estimates based on the DPED Input-Output Model.

Table 228.-- ECONOMIC ACTIVITY GENERATED BY VISITOR-RELATED EXPENDITURES, BY INDUSTRY: 1983

Year and industry (million dollars)	Direct visitor-related expenditures 1/ (million dollars)	Total sales or output 2/ (million dollars)	Total household income (million dollars)	Jobs (1,000)	
				Total 3/	Direct only
All industries	4,509.0	7,725.5	2,826.1	164.5	90.8
Agriculture	35.9	79.3	35.2	0.8	0.4
Textile and apparel mfg.	38.4	68.0	23.8	1.7	1.1
Other manufacturing	121.3	237.8	63.1	4.4	1.4
Air transportation	445.0	783.2	253.6	12.3	5.5
Other transportation	177.0	364.6	139.8	6.3	3.2
Wholesale trade 4/	104.7	220.8	95.3	5.0	2.4
Eating and drinking places ...	915.6	1,785.4	540.2	44.0	25.6
Other retail trade 4/	385.8	829.5	383.5	26.0	17.0
Hotel services and real estate	1,257.3	2,803.8	1,068.7	49.7	25.7
Other services	268.5	553.1	222.9	14.3	8.5
Imports	759.5	...	...	...	...

1/ Direct expenditures by visitors, airline and ship crews, and overseas airlines.

2/ Direct, indirect, and induced sales.

3/ Direct, indirect and induced jobs.

4/ Expenditure figure refers to mark-up earned, not total sales revenue.

Source: Hawaii State Department of Planning and Economic Development, unpublished estimates based on the DPED Input-Output Model.

Table 229.-- HAWAII VISITORS BUREAU INCOME AND EXPENDITURES: 1973 TO 1983

[In dollars. Years ended June 30]

Year	Income				Expenditures
	Total	State appropriations 1/	Private subscriptions	Other 2/	
1973	2,280,231	1,687,908	568,817	23,506	2,243,808
1974	2,289,946	1,692,963	557,706	39,277	2,259,602
1975	2,272,313	1,687,696	554,424	30,193	2,291,405
1976	2,466,570	1,798,452	629,418	38,700	2,473,050
1977	2,743,622	1,912,238	663,289	168,095	2,743,610
1978	2,908,365	1,975,360	735,962	197,043	2,902,134
1979	3,071,748	2,062,036	790,033	219,679	3,003,599
1980	3,140,200	2,069,728	799,978	270,494	3,118,998
1981	3,337,771	2,052,727	941,542	343,502	3,285,624
1982	4,431,673	3,197,785	1,033,486	200,402	4,448,871
1983	4,484,734	3,216,000	966,146	302,588	4,485,156

1/ Net after refunds (if any) to the State.

2/ May include income from Federal grants, mainland promotional programs, literature sales, convention servicing, and interest.

Source: Hawaii Visitors Bureau, Financial Statements of Operations (annual), and records.

Table 230.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979

[Data obtained from a telephone survey of 500 adults, 18 years old and over, living in regular housing units. Coverage excludes persons under 18 and all occupants of institutions and military barracks]

Characteristics	Number
Total round-trips by adults for vacations outside Hawaii, 1979	355,000
Percent of all adults --	
Vacationing outside Hawaii in 1979	35.2
Last vacation outside Hawaii was before 1979	39.8
Never vacationed outside Hawaii	25.0
Percent of all households --	
Traveling outside Hawaii for any purpose in 1979	45.2
Traveling outside Hawaii for vacations in 1979	41.0
Percent of all adults vacationing in 1979 in -- 1/	
California	21.2
Nevada	12.0
Alaska	0.4
Pacific Northwest	3.8
Southwest States	1.0
Rocky Mountain States	2.0
Central States	3.8
Southern States	3.2
Eastern States	4.4
Canada	2.0
Japan	1.6
Philippines	1.4
Europe	1.4
Average size of vacation parties in 1979	2.08
Persons under 18 years of age	0.40
Persons 18 years old and over	1.68
Length of vacation trips in 1979 (nights): 2/	
Median	12.8
Mean	17.2

Continued on next page.

Table 230.-- CHARACTERISTICS OF OUT-OF-STATE TRAVEL BY HAWAII RESIDENTS: 1979 -- Con.

Characteristics	Number
Average household expenditure per vacation trip in 1979 (dollars), all categories 3/	2,051
Airfare	732
Other transportation	116
Food and drink	309
Hotel or other lodging	163
All other expenses	510

1/ Respondents could name more than one destination per trip. Only those foreign areas mentioned by 1.0 percent or more of respondents are shown separately in this table; for greater detail, see Data Book 1983, table 197, or source.

2/ Includes time spent for nonvacation purposes.

3/ Includes data for households unable to provide breakdowns by category; detail will thus fail to add exactly to indicated total.

Source: John M. Knox and Juanita C. Liu, Out-of-State Recreational Travel by Hawaii Residents (Hawaii State Department of Planning and Economic Development, April 1980), pp. viii, 13, 15, 24, 31, 40, and 46.

Table 231.-- PASSPORTS ISSUED, BY FIRST AREA DESTINATION: 1980 TO 1983

Passport category and first area destination	1980	1981	1982	1983
Issued by Honolulu Passport Agency 1/ ..	31,928	34,191	41,906	41,366
Issued to Hawaii residents, total 2/ ...	28,800	31,700	38,690	(NA)
Europe	9,730	10,970	14,860	(NA)
Middle East	430	510	310	(NA)
Far East	10,190	10,980	13,830	(NA)
North, Central, and South America	1,000	940	960	(NA)
Africa	120	100	70	(NA)
Australia and Oceania	7,320	8,200	8,660	(NA)
World tour	10	-	-	(NA)

NA Not available.

1/ Includes passports issued to persons not residing in Hawaii.

2/ Includes passports issued by offices not in Hawaii.

Source: U.S. Department of State, Bureau of Consular Affairs, Summary of Passport Statistics (January 1981) and information supplied June 11, 1981, October 12, 1982, and May 25, 1984.

Table 232.-- CHARACTERISTICS OF RESIDENTS RETURNING FROM THE MAINLAND: 1961 TO 1983

Year	Number returning	Oahu residents 1/ (percent)	Median age (years)	Males per 100 females	Persons per party
1961 2/ ...	41,450	86.0	32.9	125.9	1.35
1967	130,995	89.4	...	...	1.24
1972	171,772	87.5	...	...	1.36
1977	179,298	84.9	...	...	1.39
1980	197,799	85.2	37.9	100.8	1.42
1981	230,728	83.8	37.3	101.6	1.44
1982	290,040	84.8	36.7	100.9	1.45
1983	236,725	84.7	36.5	102.2	1.45

Year	Party heads with high-status occupations 3/ as percent of--		Days absent 4/		Average number absent 4/
	All party heads	Employed civilian party heads	Median	Mean	
1961 2/ ...	44.9	72.2	23.7	49.6	5,200
1967	...	...	18.4	45.9	14,800
1972	...	...	13.8	25.3	11,900
1977	...	...	13.5	20.6	10,100
1980	54.8	78.0	11.6	17.0	9,200
1981	54.5	78.7	13.3	17.3	10,900
1982	52.6	78.6	13.3	18.1	14,400
1983	51.3	78.4	12.8	17.2	11,200

1/ Data for Oahu include persons specifying military bases rather than island of residence.

2/ Year ended June 30.

3/ Party heads reporting professional, technical, business, managerial, and official occupations.

4/ For persons absent 1 to 365 days.

Source: Hawaii State Department of Planning and Economic Development, Out-of-State Travel by Hawaii Residents During 1983 (Statistical Report 169, October 10, 1984), table 2.

Table 233.-- ATTENDANCE AT MUSEUMS AND OTHER ATTRACTIONS: 1973 TO 1983

[Includes museums, State monuments, historic sites, and similar attractions. Excludes zoological gardens, parks in which the chief appeal is scenic or recreational rather than cultural, the performing arts, libraries, and cultural attractions that are only incidental to other features. Also excludes facilities closed throughout the year and those for which attendance data were not available. Attractions reporting on a fiscal year basis not adjusted to a calendar year basis]

Year	Number of attractions 1/	Attendance (1,000)	Year	Number of attractions 1/	Attendance (1,000)
1973 ..	33	4,733	1979 ..	37	10,539
1974 ..	29	4,407	1980 ..	40	11,014
1975 ..	30	6,261	1981 ..	45	11,497
1976 ..	32	7,480	1982 ..	46	13,115
1977 ..	33	8,794	1983 ..	45	12,763
1978 ..	32	9,504			

1/ Facilities with multiple sites or attractions are counted only once.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1983 (Statistical Memorandum 84-2, May 10, 1984).

Table 234.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1981 TO 1983

Island and cultural attraction	1981	1982	1983
State total	11,496,831	13,114,834	12,763,158
Oahu	8,912,918	10,510,875	10,481,724
Bernice P. Bishop Museum 1/	212,071	220,325	182,699
Exhibition halls	152,474	169,584	142,779
Planetarium	38,422	32,735	33,182
Falls of Clyde Maritime Museum 2/	21,175	18,006	6,738
Castle Park	1,260,000	1,150,000	1,000,000
Contemporary Arts Center	29,500	30,000	27,000
Damien Museum and Archives	2,980	4,569	14,656
Dole Cannery tours	79,126	88,276	115,015
Foster Botanic Garden	130,753	125,442	112,309
Fred Ohrt Museum 3/	3,438	5,506	4,102
Honolulu Academy of Arts	205,969	218,442	218,215
Iolani Palace State Monument 1/	53,000	56,000	61,000
Ho'omaluhia Park 4/	-	121,297	78,082
Kamehameha V Post Office 1/	2,000	8,000	6,000
Mission Houses Museum 5/	23,800	24,080	29,626
Mormon Temple Grounds 6/	289,138	298,848	287,585
National Memorial Cemetery of the Pacific	2,605,818	3,866,100	3,989,152
Pacific Submarine Museum	60,287	68,344	69,477
Paradise Park	310,000	303,000	305,000
Polynesian Cultural Center	892,000	950,000	900,000
Puu O Mahuka State Monument 1/	2,000	3,000	14,000
Queen Emma Summer Palace	15,556	16,820	18,786
Royal Mausoleum State Monument 1/	45,000	77,000	79,000
Sea Life Park 7/	566,427	579,584	566,320
Tennent Art Foundation Gallery	2,500-3,000	3,000	3,000
Tropic Lightning Historical Center 8/	3,800	15,600	9,210
Ulu Po Heiau State Monument 1/	1,000	1,000	3,000
U.S. Army Museum, Ft. DeRussy	133,067	105,710	98,268
U.S.S. Arizona Memorial 9/	1,255,171	1,440,582	1,530,990
By Navy boats	876,313	1,148,561	1,153,286
By civilian boats	378,858	292,021	377,704
Wahiawa Botanic Garden 10/	54,574	35,309	17,148
Waikiki Aquarium	267,830	250,776	248,261
Waimea Falls Park	405,863	444,265	493,823
Hawaii	2,014,714	1,921,694	1,622,674
Hulihee Palace	18,512	18,907	23,411
Kamuela Museum	10,020	10,447	18,033
Kilauea Visitor Center	1,895,000	(11/)	1,500,000
Lapakahi State Park 1/	55,000	50,000	65,000
Lyman House Memorial Museum	22,182	17,340	16,230
Mookini Heiau 1/	14,000	(NA)	(NA)

Continued on next page.

Table 234.-- ATTENDANCE AT MUSEUMS AND OTHER CULTURAL ATTRACTIONS: 1981 TO 1983 -- Con.

Island and cultural attraction	1981	1982	1983
Maui	127,646	129,082	137,330
Baldwin Home Museum	32,311	37,262	33,440
Brig Carthaginian	45,833	38,562	42,837
Hale Hoikeike 12/	7,502	8,958	8,035
Halekii-Pihana State Monument 1/	42,000	44,000	44,000
Hale Pa'i 13/	-	300	9,018
Kauai	433,053	547,800	512,844
Grove Farm Homestead	4,237	3,789	4,225
Hanalei Museum 14/	3,800	6,000	-
Kauai Museum 15/	27,602	24,529	17,236
Kokee Natural History Museum	61,920	57,981	61,241
Russian Fort State Monument 1/, 16/	329,000	451,000	426,000
Waioli Mission House	6,494	4,501	4,142
Molokai	8,500	5,383	8,586
Kalaupapa Settlement	8,500	5,383	8,586

NA Not available.

1/ Years ended June 30.

2/ Closed November 1982 to November 1983. On November 1, 1983, responsibility for operating this facility was transferred from the Bishop Museum to the Friends of the Falls of Clyde.

3/ Closed Sept.-Dec. 1981 for renovation.

4/ Opened March 4, 1982.

5/ Years ended June 30, 1981 and 1982; calendar year 1983.

6/ Church of Jesus Christ of Latter-Day Saints, Hawaii Temple Visitor's Center.

7/ Years beginning March 1, 1981 and 1982; calendar year 1983.

8/ Annual data may not be comparable.

9/ All persons visiting either the Memorial or the Visitor Center, including all non-landing tour boat passengers.

10/ Closed Nov. 23, 1982 to May 24, 1983, because of hurricane damage.

11/ Estimated at 1,750,000 to 1,900,000.

12/ Calendar years 1981 and 1982; year begun March 1, 1983.

13/ Reopened Dec. 17, 1982, after two-year restoration.

14/ Closed November 23, 1982, for indefinite period.

15/ Years ended September 30.

16/ Attendance estimates reflect heavy use of rest rooms by tour bus passengers.

Source: Hawaii State Department of Planning and Economic Development, Attendance at Museums and Other Attractions, 1983 (Statistical Memorandum 84-2, May 10, 1984).

Table 235.-- PERFORMING ARTS, FOR OAHU: 1982-1983 SEASON

Name of organization and type of performance	Productions	Performances	Attendance
All reporting groups	502	1,376	936,821
Brigham Young Univ.-Hawaii Campus	7	7	2,620
Chaminade University of Honolulu	2	16	2,800
Hawaii Loa College	4	14	1,400
Hawaii Performing Arts Company, total	10	172	16,703
Mainstage season	7	159	15,747
Studio Series	3	13	956
Honolulu Community Theatre	10	100	41,400
Honolulu Dept. of Auditoriums, total	81	162	458,113
Ballets	3	9	13,210
Concerts	42	48	156,065
Operas	3	9	16,511
Rock shows	15	19	109,601
Other dramatic and musical productions	18	77	162,726
Honolulu Theatre for Youth 1/	5	314	129,237
Leeward Community College, total	49	108	41,400
Drama: Honolulu Theatre for Youth	1	39	17,590
Others	4	13	3,612
Music	12	13	5,400
Dance	13	21	7,326
Miscellaneous	19	22	7,472
Pohai Nani Players	2	6	400
U.S. Army Support Command, total	307	362	214,399
Plays and musicals	6	41	5,626
Showmobile activities	36	36	46,200
Commercial entertainment activities	29	29	105,685
DOD/USO touring shows	10	30	8,816
Shows at KMC and PTA, Big Island	142	142	10,080
Soldier bands and jam sessions	84	84	37,992
University of Hawaii at Manoa	19	119	43,064
Windward Community College	3	3	75
Windward Theater Guild	4	32	2,800

1/ Includes 86 performances and 29,613 attendance on tours to Neighbor Islands and American Samoa. For Oahu only, there were 228 performances and 99,624 attendance.

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1982-1983 (Statistical Memorandum 84-1, May 9, 1984).

Table 236.-- CHARACTERISTICS OF NON-PROFIT ARTS AND CULTURAL ORGANIZATIONS: 1982

Subject	Amount
Number surveyed	144
Attendance (1,000)	3,051
Paid admissions	1,452
Unpaid admissions	1,599
Income ($1,000)	16,846
Admissions, concessions, and other earned income	6,625
Government funds	4,249
Contributions by foundations, businesses, and individuals	2,677
Investment (endowments)	3,296
Expenditures ($1,000)	19,074
Wages and salaries	8,542
Fringe benefits	1,102
Purchased goods and services	8,545
Other operating expenses	885
Volunteer hours donated	515
Equivalent wages ($1,000)	5,550

Source: Arts Council of Hawaii, The Economic Impact of Hawaii's Non-Profit Arts and Cultural Organizations 1982 (1982).

Table 237.-- MUSEUMS, ART GALLERIES, BOTANICAL, ZOOLOGICAL GARDENS: 1977

[Data limited to tax-exempt establishments with payroll]

Subject	Total	Commercial	Noncommercial
Number of establishments	24	4	20
Revenue, total ($1,000)	5,536	477	5,059
Admissions	378	6	372
Govt. or private contributions	2,927	-	2,927
All other sources	2,231	471	1,760
Expenses, total ($1,000)	5,808	486	5,322

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 19.

Table 238.-- HONOLULU SYMPHONY ORCHESTRA: 1972-1973 TO 1982-1983

Season	Average number of orchestra personnel	Number of performances	Total attendance	Operating expenses (dollars)
1972-1973	80	109	200,931	1,042,262
1973-1974	80	119	177,000	1,439,486
1974-1975	80	135	198,000	1,423,911
1975-1976	80	128	224,000	1,654,510
1976-1977	80	136	200,000	1,654,050
1977-1978	75	109	194,474	1,980,720
1978-1979	75	118	192,413	2,398,020
1979-1980	75	122	186,135	2,189,172
1980-1981	80	107	155,622	2,211,082
1981-1982	80	109	168,900	2,627,293
1982-1983	80	142	204,193	2,817,196

Source: Hawaii State Department of Planning and Economic Development, The Performing Arts, 1982-1983 (Statistical Memorandum 84-1, May 9, 1984).

Table 239.-- ZOOS: 1982 AND 1983

Zoo	Animal and bird inventory 1/				Attendance	
	Species		Individuals			
	1982	1983	1982	1983	1982	1983
Coco Palms (Kauai)	6	6	48	65	4,652	3,742
Honolulu Zoo	317	315	1,215	1,119	1,104,351	1,129,192
Maui Zoological and Botanical Gardens	46	45	120	176	85,000	86,200
Molokai Ranch Wildlife Park ..	11	11	300	350	2,000	3,000
Panaewa Rainforest Zoo (Hilo)	51	53	154	153	41,140	37,007

1/ As of December 31.

Source: Data obtained by Hawaii State Department of Planning and Economic Development from Coco Palms Resort Hotel, Molokai Ranch Wildlife Park, and the departments of parks and recreation of the City and County of Honolulu and Counties of Hawaii and Maui.

Table 240.-- RECREATION RESOURCES AND FACILITIES AND RELATED OPEN SPACE ACREAGE: 1975 AND 1980

Category	State totals		Counties: 1980			
	1975	1980	Honolulu	Hawaii	Kauai	Maui
Total acreage 1/	1,468,368	1,584,042	132,111	936,864	213,809	301,258
Recreation resources (acres):						
Park-related beach	285	366	195	16	99	56
Hunting areas	899,468	924,283	20,027	608,100	125,926	170,230
Recreation facilities:						
Improved acreage 1/	4,979	5,186	2,722	1,264	682	518
Active	2,410	2,559	1,362	575	376	246
Passive	2,019	2,198	1,091	614	282	211
Service	393	434	268	75	30	61
Linear facilities (miles):						
Trails	424	827	109	429	155	170
Bikeways	-	41	38	-	3	-

1/ Detail does not always add to indicated totals, for unstated reasons.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), p. 57.

Table 241.-- RECREATIONAL FACILITIES AND RESOURCES, BY COUNTIES: 1980

Type of facility or site	State total	Honolulu	Hawaii	Kauai	Maui
Active parks (sites)	428	272	65	38	53
Public	220	122	38	28	32
DOE and UH 1/	208	150	27	10	21
Swimming pools	52	35	7	5	5
Sport fields	481	302	69	61	49
Public	349	220	42	54	33
DOE and UH 1/	132	82	27	7	16
Sport courts	792	622	67	47	56
Public	555	473	19	35	28
DOE and UH 1/	237	149	48	12	28
Tennis courts	494	304	69	71	50
Public	258	178	38	19	23
Private	87	21	13	42	11
DOE and UH 1/	149	105	18	10	16
Golf courses (sites)	40	17	9	4	10
Public	8	5	1	1	1
Private	32	12	8	3	9
Boat lanes	66	25	19	13	9
Boat moorages	2,385	1,820	297	91	177
Sandy beaches (sites) ...	221	103	29	40	49
Improved park	84	43	8	18	15
Unimproved	137	60	21	22	34
Picnicking sites	170	65	42	26	37
Beach	113	47	29	19	18
Inland	57	18	13	7	19
Camping sites	64	21	19	13	11
Beach	51	20	14	12	5
Inland	13	1	5	1	6

1/ Hawaii State Department of Education and University of Hawaii.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 67, 69, 71, 73, and 75.

Table 242.-- PEAK-DAY RESIDENT AND VISITOR PARTICIPATION IN SPECIFIED RECREATION ACTIVITIES: 1980

[Based on a survey conducted in the late summer of 1978 and projections of resident population and average visitor census for 1980. The data refer to the day of the week on which the greatest combined participation by residents and visitors occurs for the specified activity]

Activity	Activity occasions 1/		Percent of State total accounted for by --	
	State total	Oahu only	Residents	Visitors
All activities	986,430	737,417	83	17
Walking	240,434	191,201	78	22
Jogging	73,068	62,181	96	5
Hiking	15,709	10,413	79	21
Camping	20,809	16,130	96	5
Group camping	3,804	913	89	11
Picnicking	84,716	58,447	94	6
Hunting	1,502	234	90	10
Golf	15,681	11,714	79	21
Swim or sunbathing	171,525	123,616	75	25
Diving	20,875	13,483	77	23
Surfing	22,608	15,587	81	19
Boating	18,563	13,547	73	27
Canoe paddling	3,233	1,786	87	13
Fishing	24,875	17,322	96	4
Field games	32,404	27,065	98	2
Court games	19,070	15,891	100	0
Playground equipment	14,928	11,175	100	1
Tennis	18,106	12,749	85	15
Outdoor events	19,071	15,562	76	24
Bicycling	74,909	54,403	100	0
Motorcycling	8,722	6,719	83	17
Other activities	22,606	18,008	98	3
Sightseeing	59,212	39,271	47	53

1/ An activity occasion is a peak-day participation in that activity by a member of a resident household or visitor party.

Source: Hawaii State Department of Land and Natural Resources, State Recreation Plan, Technical Reference Document (September 1980), pp. 80 and 83.

Table 243.-- NATIONAL PARK SUMMARY: 1972 TO 1983

[Acreage data have been revised from the corresponding figures in previous editions of the Data Book]

Year	Areas, Dec. 31	Acreage, Dec. 31 1/			Visits
		Total	Federal	Non-Federal	
1972	4	235,274	235,174	100	2,046,081
1973	4	235,274	235,208	66	2,025,593
1974	4	235,274	235,208	66	2,298,676
1975	4	235,274	235,208	66	2,559,429
1976	4	235,274	235,208	66	2,895,840
1977	4	235,274	235,208	66	2,932,555
1978	5	236,574	235,208	1,366	3,572,504
1979	5	236,574	235,208	1,366	3,384,343
1980	7	247,488	235,243	12,245	3,479,797
1981	7	247,488	235,243	12,245	4,225,217
1982	7	247,488	235,243	12,245	4,950,621
1983	7	247,349	235,243	12,106	5,252,385

Footnote and source follow next table.

Table 244.-- NATIONAL PARKS: 1983

Area	Acreage, December 31			Visits
	Total	Federal	Non-federal	
Hawaii Volcanoes National Park 1/ .	207,643	207,643	-	2,821,115
Haleakala National Park	27,350	27,350	-	889,425
Pu'uhonua o Honaunau National Historical Park	181	181	-	347,840
Kaloko-Honokohau National Historical Park	1,161	-	1,161	(2/)
Puukohola Heiau National Historical Site	100	34	66	40,719
U.S.S. Arizona Memorial 3/	12	12	-	1,153,286
Kalaupapa National Historical Park	10,902	23	10,879	(2/)

1/ Data exclude the Olaa Forest Tract. This 9,654-acre tract is entirely in Federal ownership, is managed by the National Park Service, and has been designated as part of the wilderness system by the Congress, but it is not within the legally authorized boundary of Hawaii Volcanoes National Park.

2/ Not yet open to the public.

3/ The U.S.S. Arizona Memorial is wholly within the Pearl Harbor Naval Base. The acreage figure is the approximate extent of the total area over which the National Park Service has been granted use rights by the U.S. Navy.

Source: U.S. Department of the Interior, National Park Service, Pacific Area Office, records.

Table 245.-- STATE PARKS AND HISTORIC SITES: 1974 TO 1984

Year and island	Number of areas, June 30	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
		Total	Developed	
1974	53	16,629	533.9	12,907
1975	53	18,181	578.9	12,124
1976	55	18,577	606.6	14,305
1977	58	20,151	681.8	18,864
1978	64	20,295	706.8	15,966
1979	65	20,625	880.0	17,911
1980	66	20,637	916.7	17,169
1981	71	20,836	937.8	15,611
1982	72	20,885	937.8	18,111
1983	74	20,564	980.1	17,246
1984	74	24,751	979.1	19,406
ISLANDS: 1983				
Hawaii	18	2,316.8	310.4	3,723
Maui	11	275.5	50.1	3,371
Molokai	1	233.7	10.0	180
Oahu	33	8,848.9	399.7	4,192
Kauai	11	8,889.2	209.8	5,780
ISLANDS: 1984				
Hawaii	18	1,588.1	309.2	3,930
Maui	11	284.9	50.3	3,539
Molokai	1	233.7	10.0	186
Oahu	33	8,849.9	399.8	4,299
Kauai	11	13,793.9	209.8	7,452

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation and Historic Sites, records.

Table 246.-- MAJOR STATE PARKS: 1983 AND 1984

[Parks having at least 750,000 recreation visits or 1,000 acres]

Park	Acreage, June 30		Recreation visits, year ended June 30 (1,000)
	Total	Developed	
1983			
Wailua River State Park 1/	1,133.4	77.1	2,743
Waimea Canyon State Park	1,800.0	10.0	984
Hapuna Beach State Recreation Area ...	300.0	26.8	943
Nuuanu Pali State Wayside	5.0	2.5	905
Kokee State Park	4,345.0	55.0	835
Iao Valley State Park	6.2	5.9	756
Kahana Valley State Park	5,093.2	20.0	47
Na Pali Coast State Park	1,337.4	4.0	43
Sacred Falls State Park	1,374.2	10.0	37
1984			
Wailua River State Park 1/	1,133.4	77.1	3,739
Waimea Canyon State Park	1,866.4	10.0	1,449
Hapuna Beach State Recreation Area ...	300.0	26.8	1,019
Kokee State Park	4,345.0	55.0	930
Nuuanu Pali State Wayside	5.0	2.5	899
Sand Island State Recreation Area	140.0	83.0	795
Iao Valley State Monument	6.2	5.9	781
Na Pali Coast State Park	6,175.0	4.0	54
Kahana Valley State Park	5,093.2	20.0	40
Sacred Falls State Park	1,374.2	10.0	33

1/ Six separate areas.

Source: Hawaii State Department of Land and Natural Resources, Division of State Parks, Outdoor Recreation, and Historic Sites, records.

Table 247.-- COUNTY PARKS: 1981 TO 1983

[As of December 31]

Island	Number of areas			Acreage 1/		
	1981	1982	1983	1981	1982	1983
State total ..	622	627	626	8,133	8,207	8,273
Hawaii	134	134	135	1,445	1,445	1,460
Maui	91	82	79	952	921	899
Lanai	(2/)	2	3	(2/)	5	7
Molokai	(2/)	10	10	(2/)	51	51
Oahu	339	343	343	5,230	5,265	5,273
Kauai	58	56	56	506	520	583
Niihau	-	-	-	-	-	-

1/ Revised from Data Book 1983, table 212.
2/ Included with Maui.
Source: Compiled by the Hawaii State Department of Planning and Economic Development from the City and County of Honolulu Department of Parks and Recreation, Hawaii County Department of Parks and Recreation, Kauai County Department of Public Works, and Maui County Department of Parks and Recreation.

Table 248.-- ATTENDANCE AND WATER SAFETY AT GUARDED BEACH PARKS, FOR THE CITY AND COUNTY OF HONOLULU: 1982 AND 1983

Subject	1982	1983
Attendance, total 1/	12,724,614	12,487,274
District I: Ala Moana to Waikiki	5,766,607	6,205,058
District II: Hanauma Bay to Kualoa	3,692,584	4,201,417
North Shore: Kahana Bay to Waialua	2,371,946	1,149,461
Leeward: Makaha to Nanakuli	893,477	931,338
Rescues	917	818
First aid: Minor	21,228	18,666
Major	699	1,726
Resuscitation	25	40
Ambulance assistance	70	141
Police assistance	28	75
Fire assistance	18	36
Helicopter assistance	4	10
Lost and found children	65	128
Drownings	11	3

1/ Based on headcounts taken at approximately two-hour intervals by Water Safety Officers over an 8-hour work day.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 249.-- COUNTY GOLF COURSES AND CAMPING PERMITS, FOR OAHU: 1978 TO 1983

Calendar year	Public golf courses			Camping permits issued 1/
	Courses	Holes	Rounds played	
1978	4	63	398,337	9,569
1979	4	63	351,204	8,414
1980	4	63	424,426	6,438
1981	4	63	461,543	5,989
1982	4	63	447,782	6,412
1983	4	63	494,610	7,462

1/ By the City and County of Honolulu.

Source: City and County of Honolulu, Department of Parks and Recreation, records.

Table 250.-- FISHING AND HUNTING LICENSES ISSUED: 1979 TO 1984

[Years ended June 30]

Year	Freshwater game fishing licenses	Hunting licenses
1979	8,208	11,680
1980	7,815	11,905
1981	8,102	12,284
1982	8,526	11,935
1983	8,720	11,959
1984	9,866	12,107

Source: Hawaii State Department of Land and Natural Resources, Division of Conservation and Resources Enforcement, data provided July 13, 1984.

Table 251. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980

Activity and characteristic	Resident in-State	Nonresident in-State	Resident out-of-State
FISHING			
Participants	153,200	90,700	15,100
Freshwater	16,400	13,100	8,600
Saltwater	149,400	90,000	7,500
Deep sea	25,900	37,400	500
Surf and shore	132,300	46,300	3,100
Sounds, bays, tidal inlets, streams	4,400	6,900	5,100
Participants as percent of population	21.7	(X)	2.1
Days of participation	3,017,900	257,700	242,700
Per fisherman	19.7	2.8	16.1
Total expenditures 1/ ($1,000)	23,153.9	26,388.1	(NA)
Per fisherman (dollars)	151	291	(NA)
HUNTING			
Participants	17,300	11,100	3,300
Deer	2,400	-	900
Wild turkey	1,800	-	400
Feral goat	9,100	5,700	-
Feral sheep	3,900	-	-
Feral pigs	10,600	4,900	-
Quail	3,500	9,900	500
Pheasant	7,500	9,900	400
Partridge	2,700	-	400
Migratory birds	2,300	5,500	200
Participants as percent of population	2.4	(X)	0.5
Days of participation	301,800	40,100	34,700
Per hunter	17.4	3.6	10.6
Total expenditures 1/ ($1,000)	3,853.1	3,138.6	(NA)
Per hunter (dollars)	223	283	(NA)

Footnotes and source on next page.

Table 251. -- FISHING AND HUNTING CHARACTERISTICS OF PERSONS 16 YEARS AND OVER, BY RESIDENT STATUS: 1980 -- Con.

NA Not available.
X Not applicable.

1/ Expenditures for travel, food, lodging, and fees only. For further information, see source, pp. 18-30.

Source: U.S. Fish and Wildlife Service and U.S. Bureau of the Census, *1980 National Survey of Fishing, Hunting, and Wildlife-Associated Recreation, Hawaii*, pp. 4, 7, 8, 9, 59, and 60.

Table 252.-- PUBLIC HUNTING AREAS AND WILDLIFE SANCTUARIES AND REFUGES, BY ISLANDS: FEBRUARY 1984

Island	Public hunting areas		National Wildlife Refuges 1/		Other wildlife sanctuaries and refuges	
	Number	1,000 acres	Number	1,000 acres	Number	1,000 acres
State total	61	1,026.2	6	256.0	10	80.6
Hawaii	26	727.9	-	-	4	79.5
Maui	7	102.5	-	-	1	0.1
Lanai	1	35.6	-	-	-	-
Molokai	3	27.5	1	0.0	-	-
Oahu	13	26.0	2	0.2	5	0.7
Kauai	11	106.7	3	1.2	-	-
Niihau	-	-	-	-	-	-
Other islands	-	-	1	254.6	(2/)	0.3

1/ U.S. Fish and Wildlife Service.

2/ The Hawaii State Seabird Sanctuary is comprised of 36 islets offshore all major islands, including Kure Atoll in the Northwestern Hawaiian Islands. This sanctuary is administered out of the Oahu District office.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, information supplied February 21, 1984.

Table 253.-- GOLF COURSES, BY ISLANDS: 1984

Island and type of operation	Number of courses				Number of holes
	Total	9-hole	18-hole	27-hole	
State total ..	57	12	44	1	927
Hawaii	11	2	9	-	180
Public 1/	4	2	2	-	54
Municipal	1	-	1	-	18
Resort	6	-	6	-	108
Maui	10	2	8	-	162
Private	1	1	-	-	9
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	7	-	7	-	126
Lanai	1	1	-	-	9
Public 1/	1	1	-	-	9
Molokai	2	1	1	-	27
Public 1/	1	1	-	-	9
Resort	1	-	1	-	18
Oahu	28	5	23	-	459
Private	4	-	4	-	72
Public 1/	8	1	7	-	135
Municipal	4	1	3	-	63
Military	9	3	6	-	135
Resort	3	-	3	-	54
Kauai	5	1	3	1	90
Public 1/	1	1	-	-	9
Municipal	1	-	1	-	18
Resort	3	-	2	1	63

1/ Privately owned courses open to the public on daily-fee basis.

Source: Bill Gee, 1984 Hawaiian Golf Almanac (Hawaii Junior Golf Association), pp. 3 and 8.

Table 254.-- WATER RECREATION FACILITIES AND RESOURCES, BY ISLANDS: 1983

Island	Small craft mooring facilities capacity 1/		Miles of sandy shoreline 2/		Number of surfing sites 3/
	Catwalks and piers	Other mooring areas	Total	Primary 4/	
Six major islands .	1,214	809	184.9	24.4	1,600
Hawaii	25	318	19.4	1.2	185
Maui	41	150	32.6	7.9	212
Lanai	24	-	18.2	-	99
Molokai	3	29	23.2	-	180
Oahu	1,101	276	50.3	12.5	594
Kauai	20	36	41.2	2.8	330

1/ As of December 31, 1983.

2/ Surveyed in 1962.

3/ Surveyed in 1971. A surfing site is defined as "a specific wave-breaking zone caused by a shoal and having sufficient consistency to be identified as a surfable riding area, either seasonally or in a combination of seasons, e.g., Queen's Surf, Waikiki."

4/ Safe, clean, accessible, and generally suitable for swimming.

Source: Hawaii State Department of Transportation, Harbors Division, Small Craft Mooring Facilities Utilization Report (quarterly); Hawaii State Department of Planning and Economic Development, Hawaii's Shoreline (1965), p. 7; Surfing Education Association, The 1971 Statewide Surfing Site Survey, Vol. 1, p. 93.

Table 255.-- COUNTY TENNIS FACILITIES: 1982 AND 1983

[As of December 31]

Island	Locations		Courts	
	1982	1983	1982	1983
State total ...	81	86	249	259
Hawaii	21	21	45	45
Maui	10	12	32	32
Lanai	1	1	2	2
Molokai	1	1	2	2
Oahu	39	41	146	154
Kauai	9	10	22	24
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the county departments of parks and recreation.

Table 256.-- HONOLULU MARATHON REGISTRANTS, FINISHERS AND WINNING TIMES: 1973 TO 1984

Year	Number of registrants	Number of finishers	Winning time (hr., min., sec.)	
			Men	Women
1973	162	151	2:27:34	3:25:31
1974	347	297	2:23:02	3:01:59
1975	750	706	2:17:24	2:49:24
1976	1,670	1,443	2:20:37	2:44:44
1977	3,500	2,900	2:18:38	2:48:08
1978	5,580	5,587	2:17:05	2:43:10
1979	6,609	6,512	2:16:13	2:40:07
1980	6,716	6,630	2:16:55	2:35:26
1981	7,270	7,170	2:16:54	2:33:35
1982	12,275	10,023	2:15:29	2:41:10
1983	10,847	8,434	2:20:18	2:41:24
1984	10,653	8,166	2:16:25	2:42:50

Source: Honolulu Marathon Association, records.

Table 257.-- TRANSPACIFIC YACHT CLUB'S HONOLULU RACE ENTRIES AND WINNING TIMES: 1973 TO 1983

[The Honolulu Race, sponsored by the Transpacific Yacht Club of Los Angeles, is run biennially between San Pedro, California, and Diamond Head Lighthouse, a great circle distance of 2,217 nautical miles]

Year	Boats entered	Winning times (days, hours, minutes, seconds)	
		Elapsed	Corrected
1973 1/ ...	59	10:14:05:11	9:10:56:58
1975	65	9:23:54:51	7:22:29:05
1977	66	8:11:01:45	8:11:29:24
1979	80	11:18:01:04	11:14:42:51
1981	70	8:11:02:31	7:21:44:48
1983 2/ ...	66	9:01:53:48	7:22:55:15

1/ For earlier years, 1906-1971, see Smock's Transpac, cited in source.

2/ A catamaran, not officially entered in the race, recorded an elapsed time of 7:7:30:56.

Source: Jack Smock, Transpac, A History of the Great Race to Honolulu ... (San Diego: The Transpacific Yacht Club and the Maritime Museum Association of San Diego, 1980), pp. 470, 497-498, 521-522, 552, and 669; The Transpacific Yacht Club, 1982-83 Transpacific Yacht Club Year Book (1983); Honolulu Advertiser, July 12, 1983, p. B-1; Honolulu Star-Bulletin, July 15, 1983, p. C-3; Sunday Star-Bulletin and Advertiser, July 10, 1983, p. F-1.

Table 258.-- PROFESSIONAL BASEBALL (HAWAII ISLANDERS): 1982 TO 1984

Season	Games					Home dates	
	Number played	Won	Lost	Percent won	Ahead or behind	Number	Attendance
1982:							
First half	71	36	35	.507	-10	31	52,355
Second half	73	37	36	.507	-3	34	86,522
1983:							
First half	72	32	40	.444	-13.5	36	57,506
Second half	71	41	30	.577	-2.5	36	88,366
1984:							
First half	71	42	29	.592	-0.5	31	57,247
Second half	69	45	24	.652	+14	32	87,376
Div. playoffs ..	3	3	-	1.000	...	-	-
Champ. series ..	2	-	2	.000	...	-	-

Source: Hawaii Islanders, Inc., records.

Table 259.-- PUBLIC HIGH SCHOOL SPORTS: 1982-1983 SEASON

Sport	Players	Games 1/	Attendance	Expenditure 2/ (dollars)
Baseball	Boys	342	64,285	138,435
Basketball ..	Boys and girls	842	107,320	332,760
Football	Boys	282	314,765	441,395

1/ Junior varsity and varsity games, based on published schedules of sports from all leagues. Data exclude pre-season and post-season games.

2/ Data on expenditures and encumbrances reflect both general and trust funds.

Source: Hawaii State Department of Education, Office of Instructional Services, Athletics Program, letter dated November 16, 1983.

Table 260.-- VARSITY SPORTS AT THE UNIVERSITY OF HAWAII-MANOA: 1980-1981 TO 1983-1984

[Data limited to games played against four-year collegiate teams]

Sport and school year	All games			Home games	
	Won	Lost	Tied	Home dates	Attendance
Baseball: 1/					
1980-1981	50	16	-	38	40,972
1981-1982	59	17	-	42	63,846
1982-1983	47	20	-	36	51,133
1983-1984	48	22	1	42	104,177
Basketball: 2/					
1980-1981	14	13	-	18	83,785
1981-1982	17	10	-	19	73,869
1982-1983	17	11	-	18	72,343
1983-1984	12	16	-	16	59,239
Football:					
1980-1981	8	3	-	8	342,862
1981-1982	9	2	-	8	340,261
1982-1983	6	5	-	8	336,193
1983-1984	5	5	1	8	339,138

1/ Including the Rainbow Easter Tournament and post-season play.
2/ Including the Rainbow Classic.
Source: University of Hawaii, Office of Intercollegiate Athletics, Sports Information Office, records.

Table 261.-- DOG LICENSES ISSUED, BY ISLANDS: 1978 TO 1983

[Dogs licensed on an annual basis through May 27, 1980 and biennially thereafter]

Year	State total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
1978	50,851	5,200	5,361	137	365	38,215	1,573
1979	46,450	4,682	4,706	111	383	34,954	1,614
1980	61,115	6,069	4,820	122	398	48,407	1,299
1981	46,706	5,532	4,349	140	393	35,081	1,211
1982	25,617	1,682	1,500	32	62	20,845	1,496
1983	41,566	3,397	3,454	98	203	33,597	817

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Section 8

GOVERNMENT FINANCES AND EMPLOYMENT

This section presents statistics relating to the revenues, expenditures, debt, and civilian employment of Federal, State and County governments in Hawaii.

Local government is vested in one combined city-county (Honolulu, consisting of the Island of Oahu and several outlying islets), three non-metropolitan counties (Hawaii, Kauai, and Maui), and one area (Kalawao County) administered by the State Department of Health. Separate municipal governments do not exist.

Tax collections by Federal, State and County governments in fiscal 1983 reached $3.4 billion, more than twice the level reported ten years earlier. The 1983 total included $1.9 billion in U.S. taxes, $1.2 billion in State taxes, and $320 million in County taxes, licenses and fees. Individual income taxes accounted for 89 percent of Federal collections and 28 percent of State collections in Hawaii in 1983. State revenue receipts totaled $2.1 billion, chiefly from the General Excise and Use Tax ($601 million) and Federal grants-in-aid ($387 million). The largest expenditure item in the State accounts for 1983 was education, with $690 million (out of $2,191 million) going to the University of Hawaii and public schools and libraries. The counties, in contrast, depended largely on the real property tax (which until mid-1981 was assessed and collected by the State) and grants-in-aid for their revenues, and reported police and fire protection as their largest single expenditure item. Assessed valuation of the State quadrupled between 1974 and 1984, reaching $49 billion by the end of the period; of this total, $6.7 billion was exempt from taxation. Public bonded debt outstanding at the end of 1983 exceeded $2.5 billion.

Total government employment in 1983 averaged 91,000, about 5 percent over the 1978 average. The 1983 total included over 32,000 Federal workers, 46,000 persons employed by the State, and 13,000 persons on County payrolls. State civil service employees as of mid-1983 numbered 18,500.

Important sources for statistics on government in Hawaii include the U S. Census of Governments and various annual publications of the Bureau of the Census, reports of the U.S. Treasury Department, Hawaii State Departments of Accounting and General Services, Budget and Finance, and Taxation, and the County auditors and finance directors, and an annual compilation issued by the Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics. Data extending back to the middle of the 19th century are summarized in Historical Statistics of Hawaii, Section 25. Comparable Mainland statistics appear in the Statistical Abstract of the United States: 1984, Sections 10 and 11.

Table 262.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS: 1973 TO 1983

Year	All levels of government			Federal 1/ ($1,000)	State 2/ ($1,000)	County 2/ ($1,000)
	Amount ($1,000)	Per capita 3/ (dollars)	Percent of personal income 4/			
1973	1,327,150	1,549	28.5	735,358	571,689	20,104
1974	1,512,414	1,744	28.5	840,089	650,855	21,470
1975	1,852,804	2,096	32.2	1,087,520	743,926	21,358
1976	1,821,934	2,020	29.3	945,899	850,639	25,396
1977	2,038,318	2,225	29.2	1,106,687	905,959	25,682
1978	2,228,779	2,399	28.7	1,208,480	986,182	34,117
1979	2,620,195	2,758	30.1	1,455,226	1,127,677	37,292
1980	2,966,128	3,061	30.1	1,670,459	1,255,622	40,047
1981	3,245,507	3,308	29.8	1,826,363	1,371,490	47,655
1982	3,314,105	3,325	28.7	1,876,627	1,132,699	304,779
1983	3,442,741	3,365	27.8	1,897,858	1,225,008	319,875

1/ Fiscal years ended June 30 through 1976 and September 30 thereafter.

2/ Fiscal years ended June 30.

3/ Based on estimated total resident population, June 30.

4/ Based on personal income estimates for calendar years.

Source: Tax Foundation of Hawaii, Government in Hawaii: A Handbook of Financial Statistics (annual). Per capita collections and percentages calculated by DPED.

Table 263.-- FEDERAL, STATE, AND COUNTY TAX COLLECTIONS, BY SOURCES: 1973 TO 1983

[In thousands of dollars]

Source	1973 1/	1982 2/	1983 2/
Total, all levels	1,327,150	3,314,105	3,442,741
Federal collections	735,358	1,876,627	1,897,858
Indiv. income and employment 3/	615,636	1,662,349	1,681,194
Corp. income and excess profits	86,199	157,750	154,877
Estate	10,268	26,604	22,830
Unemployment insurance	4,538	12,188	13,181
Other sources	18,717	17,736	25,776
State collections	571,689	1,132,699	1,225,008
General excise and use	210,926	577,265	601,486
Fuel	29,787	52,580	53,633
Liquor	10,229	7,701	9,299
Tobacco	7,143	14,011	17,609
Insurance	9,150	27,757	26,356
Public service companies	18,335	56,987	66,395
Corporate income 4/	12,888	39,314	24,467
Indiv. income, net income 5/	134,931	283,000	347,016
Real property	105,845	671	153
Unemployment compensation	24,008	58,324	67,625
Other sources	8,445	15,089	10,969
County collections	20,104	304,779	319,875
Motor vehicle weight 6/	11,698	23,833	15,914
Real property	-	255,058	274,920
Utility franchise	2,794	17,267	18,444
Other sources	5,612	8,621	10,597

1/ Fiscal year ended June 30.

2/ Fiscal year ended September 30 for federal collections and June 30 for others.

3/ Includes withholding, FICA, individual income, and railroad retirement taxes.

4/ Includes payments of estimated taxes less refunds.

5/ Includes withheld and estimated taxes less refunds, and delinquent compensation taxes (repealed January 1, 1958).

6/ Includes State motor vehicle weight tax for 1982 and 1983.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1984, pp. 20 and 36.

Table 264.-- ESTIMATED TAX BURDEN FOR A FOUR-PERSON FAMILY ON OAHU: 1980 AND 1982

[Based on a gross family income equivalent to four times the per capita personal income estimated for Hawaii.]

Tax category 1/	1980 (dollars)	1982 (dollars)	Percent increase
Total tax burden 2/	15,233	17,106	12.3
Direct taxes	12,555	15,246	21.4
Real property	659	686	4.1
Automobile	233	257	10.3
General excise (sales)	529	819	54.8
Specific excise	120	215	79.2
State income	2,209	2,618	18.5
Federal income	6,684	7,915	18.4
Social Security	2,121	2,736	29.0
Employment taxes paid by employer	4,755	6,279	32.1
Social Security	2,121	2,736	29.0
Unemployment Compensation	532	543	2.1
Workers' Compensation	1,940	2,806	44.6
Temporary Disability	162	194	19.8
Assumed gross family income	36,892	44,144	19.7
Net income	21,659	27,038	24.8
Consumer price index (1967=100)	228.5	267.6	17.1

1/ For underlying assumptions, see source.

2/ Based on four times the per capita overall tax burden, including corporate income taxes, and not on the sum of the direct and employment taxes listed in this table.

Source: Tax Foundation of Hawaii, The Tax Burden of the Arnie Aloha Family (May 1981 and July 1983).

Table 265.-- ESTIMATED STATE AND LOCAL TAXES PAID BY A FAMILY OF FOUR, BY INCOME LEVEL, FOR THE CITY AND COUNTY OF HONOLULU: 1981

[Data based on average family of four (wage earner, spouse, and two children) which owns its own home. Comprises State and local sales, income, auto, and real estate taxes]

Income level	Total tax paid (dollars)	Percent of income
$10,000	545	5.4
$17,000	989	5.8
$25,000	2,321	9.3
$35,000	3,413	9.8
$50,000	4,921	9.8
$75,000	7,662	10.2

Source: Study by District of Columbia Department of Finance and Revenue, cited in Statistical Abstract of the United States: 1984, p. 302.

Table 266.-- DIRECT TAX BURDENS FOR A MARRIED COUPLE WITH TWO DEPENDENTS, FOR HONOLULU: 1982

[Selected federal, state, and local taxes as a percent of income]

Income level	Total selected taxes 1/	Federal taxes	State and local taxes
$25,000	24.03	15.98	8.04
$50,000	30.39	21.96	8.43

1/ Among 50 cities listed, Honolulu ranked seventh at both income levels.

Source: Michael W. Lawson, "Measuring Tax Burden," Intergovernmental Perspective, Vol. 10, No. 2, Spring 1984, pp. 32-33.

Table 267.-- STATE REVENUE RECEIPTS: 1982 AND 1983

[In thousands of dollars. Years ended June 30]

Source of revenues	1982: all funds	1983		
		All funds	General fund	Special funds
Total 1/	1,989,462	2,105,599	1,212,519	893,080
Tax revenues	1,120,390	1,214,473	1,088,499	125,973
General excise	577,265	601,486	585,948	15,538
Specific excises 2/	149,125	165,483	122,983	42,501
Individual income	282,685	346,951	346,951	-
Corporate income	39,314	24,467	24,467	-
Unemployment compensation	58,324	67,625	-	67,625
Other taxes, licenses, permits 3/	13,677	8,461	8,152	309
Fines, forfeits, and escheats	8,028	9,218	8,402	817
Federal grants-in-aid	370,659	386,805	10,301	376,504
Revenues from other agencies	7,602	8,102	1,181	6,921
Rents, royalties, land income	113,321	101,501	46,591	54,909
Earnings: general departments	141,633	147,547	41,670	105,877
Earnings: auxiliary enterprises	23,160	25,591	-	25,591
Earnings: public service enterp.	83,061	102,216	-	102,216
Repayment debt costs: counties	278	-	-	-
Interest earned	2,723	1,086	1,086	-
Miscellaneous	118,608	109,061	14,789	94,272

1/ Excludes transfers and repayments except as shown.
2/ Includes public utilities, tobacco, liquor, insurance, and fuel taxes.
3/ Includes franchise tax, inheritance and estate taxes, and conveyance tax.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1984, p. 19.

Table 268.-- STATE OPERATING EXPENDITURES, BY FUNCTION: 1973 TO 1983

[In thousands of dollars. For years ended June 30. Due to reclassification of funds, 1982 and 1983 data are not exactly comparable to prior years. Data include general, special, and proprietary fund expenditures; Unemployment Trust Fund treated as a special fund. Interfund transfers eliminated to avoid duplication]

Functions	1973	1982	1983
Total	783,166	1,958,473	2,190,649
General government: Control	12,072	34,922	42,160
Staff	26,828	79,581	73,693
Public safety: Police and fire .	365	2,038	2,340
Other protection	29,206	60,095	69,710
Highways	15,673	48,937	57,207
Natural resources	15,801	19,094	28,404
Health and sanitation	11,518	67,810	72,270
Hospitals and institutions	43,326	84,152	96,335
Public welfare	106,856	317,195	328,323
Education: Higher	109,146	240,227	261,097
Public schools	160,410	370,356	406,370
Libraries and other .	7,338	22,082	22,753
Recreation	3,573	12,848	13,885
Utilities and other enterprises	35,590	59,290	76,856
Debt service 1/	48,674	175,330	199,213
Retirement and pension	34,772	94,878	123,443
Employees' health and hosp. insurance	6,362	19,715	21,117
Unemployment compensation	42,651	79,446	90,207
Grants-in-aid to counties	15,767	18,273	18,173
Urban redevelopment and housing	3,744	82,803	151,535
Miscellaneous	5,944	21,104	23,696
Cash capital improvements 2/ ...	47,551	48,298	11,861

1/ Debt service on revenue bonds reimbursable from highway funds included under Highways; from airport and harbor funds under Utilities; from Sand Island receipts, land revolving trust and Veterans' Home Loan funds under Miscellaneous.

2/ Special funds accounted for $45,252,081 in 1973, $39,852,659 in 1982, and $7,300,545 in 1983.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1984, p. 45.

Table 269.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1973 TO 1983

[In thousands of dollars. For years ended June 30]

Subject	1973	1982	1983
OPERATING REVENUES 1/			
Total	205,270	495,870	540,965
Real property taxes	105,843	254,398	274,920
Other taxes	24,499	51,992	54,230
Fees, licenses, permits, and fines	7,486	11,524	13,574
Departmental earnings 2/	10,325	60,445	65,177
State grants	18,195	24,546	28,135
Federal grants	35,962	76,771	82,631
Other sources	2,960	16,194	22,299
OPERATING EXPENDITURES 3/			
Total	184,681	489,335	512,146
General government: Control	2,704	9,012	8,162
Staff	17,865	46,743	52,993
Public safety: Police and fire	44,879	102,545	117,501
Other protection	8,779	15,815	19,789
Highways	13,642	27,569	29,229
Health and sanitation	13,966	43,234	44,051
Public welfare	187	6,505	5,680
Public schools	395	550	575
Recreation	14,145	35,982	38,055
Interest	11,103	18,267	21,682
Bond redemption	12,526	18,948	17,961
Pension and retirement	12,298	32,235	45,544
Economic and urban development 4/	10,238	20,638	17,680
Mass transit	3,061	37,674	41,252
Miscellaneous	6,120	27,835	27,994
Cash capital improvements	12,773	45,784	23,999

Footnotes and source follow next table.

Table 270.-- OPERATING REVENUES, BY SOURCE, AND OPERATING EXPENDITURES, BY OBJECT, FOR COUNTIES: 1983

[In thousands of dollars. For year ended June 30, 1983]

Subject	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
OPERATING REVENUES 1/				
Total	405,846	46,119	59,561	29,439
Real property taxes	201,004	23,693	36,159	14,064
Other taxes	42,142	4,566	5,031	2,491
Fees, licenses, permits, and fines	10,304	1,578	1,241	451
Departmental earnings 2/	53,128	5,740	3,753	2,557
State grants	9,293	8,004	6,874	3,964
Federal grants	69,765	2,204	5,712	4,949
Other sources	20,209	334	793	964
OPERATING EXPENDITURES 3/				
Total	373,675	51,507	59,001	27,963
General government: Control	4,735	771	1,825	830
Staff	36,595	6,573	5,666	4,159
Public safety: Police and fire	82,836	10,962	17,135	6,569
Other protection	10,915	2,982	3,688	2,205
Highways	17,274	4,132	4,999	2,825
Health and sanitation	35,531	4,820	2,688	1,012
Public welfare	-	3,355	1,643	682
Public schools	-	185	267	122
Recreation	27,306	3,592	5,337	1,820
Interest	15,279	1,122	3,608	1,672
Bond redemption	15,142	1,105	1,699	15
Pension and retirement	32,659	2,915	7,421	2,549
Economic and urban development 4/	17,680	-	-	-
Mass transit	40,237	-	1,015	-
Miscellaneous	20,599	3,480	1,355	2,561
Cash capital improvements	16,889	5,513	655	942

1/ Excludes loan, bond, revolving, improvement district, and certain trust funds, water revenues, Hilo Hospital, and Act 95, SLH 1965 special funds.

2/ Includes rentals, interest, garbage collection charges, sewer charges, sanitation charges, and other earnings and charges.

3/ Excludes certain revolving, bond, and Act 97 fund expenditures, loan repayments, Hilo Hospital special fund, and urban redevelopment land purchases. Interfund transfers omitted to avoid duplication.

4/ Includes expenditures from Federal redevelopment grants.

Source: Tax Foundation of Hawaii, Government in Hawaii, 1984, pp. 32, 33, 46, and 47.

Table 271.-- GENERAL EXCISE AND USE TAX BASE AND COLLECTIONS: 1983 AND 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Source of revenue	Tax base		Tax collections	
	1983	1984	1983	1984
All sources	21,516,615	23,582,079	615,536	669,805
Sources taxed at 4 percent	14,534,443	15,792,041	581,378	631,682
Retailing	7,438,193	8,111,893	297,528	324,476
Services	2,134,524	2,368,415	85,381	94,737
Contracting	1,353,405	1,242,929	54,136	49,717
Theater, amusement, radio	144,095	153,723	5,764	6,149
Interest	184,895	207,430	7,396	8,297
Commissions	268,167	299,754	10,727	11,990
Hotel rentals	876,227	984,518	35,049	39,381
All other rentals	1,594,593	1,759,337	63,784	70,374
Use (4 percent)	277,458	354,619	11,098	14,185
All others	262,886	309,423	10,515	12,377
Sources taxed at other rates 1/	6,982,172	7,790,038	34,158	38,124
Insurance solicitors	214,972	236,086	322	354
Sugar processing	435,579	414,211	2,178	2,071
Pineapple canning	182,967	198,266	915	991
Producing	220,298	242,641	1,101	1,213
Manufacturing	511,823	519,601	2,559	2,598
Wholesaling 2/	3,694,220	4,025,324	18,471	20,127
Services (intermediary)	102,227	128,875	511	644
Use (1/2 percent)	1,620,086	2,025,034	8,100	10,125

1/ Insurance solicitors at 0.15 percent; others at 0.5 percent.

Source: Hawaii State Department of Taxation, General Excise and Use Tax Base and General Excise and Use Tax Collections (calendar year summary tables).

Table 272.-- REAL PROPERTY TAX VALUATIONS: ANNUALLY, 1974 TO 1984

[Thousands of dollars. As of July 1 through 1976 and January 1, 1977 and later years]

Year	Assessment ratio 1/	Assessor's gross valuation			Valuation for tax rate purposes
		Total	Land	Improvement	
1974 ...	70	12,642,408	6,677,996	5,964,412	8,316,444
1975 ...	70	15,254,436	8,025,847	7,228,589	10,236,457
1976 ...	60	15,519,576	8,826,837	6,692,739	9,806,352
1977 ...	60	15,951,005	8,886,616	7,064,389	10,114,771
1978 ...	60	17,761,105	9,846,501	7,914,604	11,531,484
1979 ...	60	19,376,848	10,690,826	8,686,022	12,908,172
1980 ...	60	21,881,304	12,074,217	9,807,087	14,831,641
1981 ...	60	25,371,079	13,775,220	11,595,859	17,933,736
1982 ...	60	29,631,825	15,982,660	13,649,165	21,397,832
1983 2/.	100	46,659,440	23,603,352	23,056,088	39,508,235
1984 2/	100	49,085,380	24,900,368	24,185,012	41,672,612

1/ Percent of fair market value.

2/ Government parcels assessed at $1; see following table for estimated value.

Source: Hawaii State Department of Taxation, "Real Property Tax Valuations and Tax Rates" (annual release, through 1980); Honolulu Department of Finance, Real Property Assessment Division, "Real Property Tax Valuations and Tax Rates for the Fiscal Year 1981-82," and "Real Property Tax Valuations, Tax Rates, and Exemptions" (annual, 1982 forward).

Table 273.-- REAL PROPERTY TAX VALUATIONS: 1982 TO 1984

[In thousands of dollars]

Subject	1982	1983	1984
Assessor's gross valuation 1/	29,631,825	46,659,440	49,085,380
Land	15,982,660	23,603,352	24,900,368
Improvement	13,649,165	23,056,088	24,185,012
Exemptions 1/	8,129,360	6,392,649	6,699,195
Federal	1,273,390	2,268,632	2,347,435
State	2,399,785	4,434,374	5,244,369
County	771,156	1,399,919	1,396,617
Hawaiian Homes Commission	66,757	69,075	59,579
Homes -- fee	1,777,043	3,093,750	3,195,716
Homes -- leasehold	544,873	877,754	885,524
Public utilities	150,430	275,896	294,664
All other 2/	1,145,926	2,145,249	2,284,777
Assessor's net taxable valuation	21,502,465	40,266,791	42,386,185
Half of valuation on appeal	104,633	758,556	713,573
Number of appeals	3,234	7,390	5,523
Valuation for tax rate purposes	21,397,832	39,508,235	41,672,612
Land	11,506,523	21,357,040	22,618,164
Improvement	9,891,309	18,151,195	19,054,448
Amount to be raised by taxation 3/	276,982	290,152	301,257
Assessment ratio (percent)	60	100	100

Footnotes and source follow next table.

Table 274.-- REAL PROPERTY TAX VALUATIONS, BY COUNTIES: 1984

[In thousands of dollars]

Subject	Honolulu	Maui	Hawaii	Kauai
Assessor's gross valuation 1/	35,610,146	6,156,611	4,777,194	2,541,429
Land	18,215,379	2,830,388	2,478,646	1,375,955
Improvement	17,394,767	3,326,223	2,298,548	1,165,474
Exemptions 1/	5,265,211	500,417	681,504	252,063
Assessor's net taxable valuation .	30,344,935	5,656,194	4,095,690	2,289,366
Half of valuation on appeal	409,123	90,357	14,658	199,435
Number of appeals	1,944	1,042	534	2,003
Valuation for tax rate purposes ..	29,935,812	5,565,837	4,081,032	2,089,931
Land	16,437,475	2,636,730	2,312,694	1,231,265
Improvement	13,498,337	2,929,107	1,768,338	858,666
Amount to be raised by taxation 3/	223,381	24,899	37,196	15,781

1/ Assessor's gross valuation and total for exemptions include government parcels in 1982 but exclude them in 1983 and 1984.

2/ Mostly churches, charitable organizations, schools, low-moderate income housing, and hospitals.

3/ For fiscal year beginning July 1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions (annual).

Table 275.-- REAL PROPERTY TAX VALUATIONS, BY LAND USE CLASSES: 1984

[In thousands of dollars]

Land use class	Gross valuation, Jan. 1, 1984 1/			Amounts to be raised by taxation, fiscal 1984-85
	Total	Land	Improvement	
All classes	49,085,380	24,900,368	24,185,012	301,257
Improved residential ...	23,359,298	13,748,433	9,610,865	125,539
Apartment	9,278,678	2,465,657	6,813,021	54,890
Commercial	5,311,320	2,300,605	3,010,715	41,164
Industrial	3,260,235	2,053,898	1,206,337	25,301
Agricultural	3,052,011	2,155,719	896,292	21,965
Conservation	195,843	151,577	44,266	1,321
Hotel/resort	3,199,177	879,719	2,319,458	25,400
Unimproved residential .	1,428,818	1,144,760	284,058	5,677

1/ Government parcels assessed at $1.

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, Real Property Tax Valuations, Tax Rates, and Exemptions, 1984-85 Tax Year, State of Hawaii (July 1984).

Table 276.-- REAL PROPERTY TAX RATES, BY COUNTIES: FISCAL YEAR 1984-1985

[Dollars per $1,000 assessed value]

Land use class	Honolulu	Maui	Hawaii	Kauai
Land:				
Improved residential	6.75	4.40	8.50	6.45
Apartment	6.75	4.50	10.00	8.70
Commercial	9.00	4.50	10.00	8.70
Industrial	9.00	4.50	10.00	8.70
Agricultural	9.00	4.50	10.00	8.70
Conservation	9.00	4.50	10.00	8.70
Hotel/resort	10.00	4.50	10.00	8.70
Unimproved residential	6.75	4.50	10.00	6.45
Improvement:				
Improved residential	6.75	4.40	8.50	5.81
Apartment	6.75	4.50	8.50	8.25
Commercial	9.00	4.50	8.50	8.25
Industrial	9.00	4.50	8.50	8.25
Agricultural	9.00	4.50	8.50	8.25
Conservation	9.00	4.50	8.50	8.25
Hotel/resort	10.00	4.50	8.50	8.25
Unimproved residential	6.75	4.50	8.50	5.81

Source: City and County of Honolulu, Department of Finance, Real Property Assessment Division, *Real Property Tax Valuations, Tax Rates, & Exemptions, 1984-85 Tax Year, State of Hawaii* (July 1984).

Table 277.-- NUMBER OF EXEMPTIONS AND ADJUSTED GROSS INCOME REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1969 TO 1982

Year income was received	Number of returns	Number of exemptions 1/	Adjusted gross income (less deficit)		
			Total ($1,000)	Per return (dollars)	Per exemption (dollars)
1969	290,251	716,153	2,407,048	8,293	3,361
1970	302,426	763,992	2,802,445	9,267	3,668
1971	308,814	809,612	3,010,051	9,747	3,718
1972	318,023	763,985	3,250,608	10,221	4,255
1973	345,211	832,636	3,749,212	10,861	4,503
1974	346,824	805,533	3,957,023	11,409	4,912
1975	358,510	841,976	4,269,028	11,908	5,070
1976	362,956	815,937	4,625,609	12,744	5,669
1977	380,937	847,098	5,218,740	13,700	6,161
1978	403,217	925,125	5,943,659	14,741	6,425
1979	412,922	880,845	6,493,228	15,725	7,372
1980	424,177	936,056	7,320,740	17,259	7,821
1981	437,977	957,338	7,870,617	17,970	8,221
1982 2/	444,673	1,029,176	8,336,770	18,748	8,100

1/ Other than age or blindness.

2/ Preliminary.

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income. Individual Income Tax Returns (annual), and SOI Bulletin, Winter 1983-84, pp. 11-22.

Table 278.-- INCOME DISTRIBUTION REPORTED ON INDIVIDUAL FEDERAL INCOME TAX RETURNS: 1979 TO 1981

[By year in which income was received. Comparability from year to year is affected by changes in tax laws, changes in return forms and other factors]

Size of adjusted gross income	1979	1980	1981
All returns	412,922	424,177	437,977
Under $5,000	97,399	94,724	98,155
$5,000 under $10,000	89,037	82,752	78,026
$10,000 under $15,000	63,473	63,452	65,966
$15,000 under $20,000	45,042	45,809	46,154
$20,000 under $25,000	31,998	36,570	36,168
$25,000 under $30,000	28,081	29,055	30,433
$30,000 under $50,000	46,767	55,685	63,675
$50,000 under $100,000	9,490	14,175	17,160
$100,000 under $200,000	1,331	1,605	1,885
$200,000 under $500,000	254	284	303
$500,000 under $1,000,000 ..	34	51	37
$1,000,000 or more	16	15	15
Median income (dollars)	11,577	12,727	13,245

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income, Individual Income Tax Returns (annual).

Table 279.-- ADJUSTED GROSS INCOME AND INCOME TAX, BY SIZE OF ADJUSTED GROSS INCOME, FOR INDIVIDUAL FEDERAL INCOME TAX RETURNS, TOTAL AND JOINT: 1981

[Income earned in 1981]

Type of return and size of adjusted gross income	Number of returns	Adjusted gross income less deficit ($1,000)	Total income tax	
			Number of returns	Amount ($1,000)
ALL RETURNS				
Total	437,977	7,870,617	345,950	1,144,929
Under $5,000	98,155	174,579	25,162	4,457
$5,000 under $10,000	78,026	587,382	62,893	35,967
$10,000 under $15,000	65,966	806,316	63,959	77,143
$15,000 under $20,000	46,154	796,155	45,826	98,493
$20,000 under $25,000	36,168	806,841	35,049	101,312
$25,000 under $50,000	94,108	3,234,600	93,898	484,277
$50,000 or more	19,400	1,464,744	19,163	343,279
JOINT RETURNS OF HUSBANDS AND WIVES				
Total	194,906	5,437,179	175,054	806,684
Under $5,000	6,059	-41,049	34	372
$5,000 under $10,000	19,119	149,491	8,726	2,947
$10,000 under $15,000	27,353	334,929	25,650	19,888
$15,000 under $20,000	21,048	364,238	20,883	33,965
$20,000 under $25,000	23,486	526,540	22,367	57,963
$25,000 under $50,000	79,830	2,769,909	79,620	387,218
$50,000 or more	18,011	1,333,121	17,774	304,331

Source: U.S. Treasury Department, Internal Revenue Service, Statistics of Income--1981, Individual Income Tax Returns (1983), p. 104.

Table 280.-- INTERNAL REVENUE SERVICE OPERATIONS: 1981 TO 1983

Subject	1981	1982	1983
Internal revenue collections ($1,000)	1,826,363	1,876,628	1,897,858
Individual income and employment taxes	1,606,039	1,674,537	1,694,375
Total returns filed	756,216	773,116	795,248
Individual income tax	425,322	438,675	443,471
Returns examined	9,306	7,892	7,413
Individual	8,024	6,822	6,576
Additional tax and penalties recommended after examination ($1,000)	36,820	26,045	31,748
Individual	10,464	13,079	13,787
Costs incurred ($1,000)	6,656	7,282	8,415

Source: Annual Report, Commissioner and Chief Counsel, Internal Revenue Service for 1981, 1982, and 1983.

Table 281.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1980 AND 1981

[Revised from corresponding lines in Data Book 1982, table 222, and Data Book 1983, table 247]

Subject	Number of returns	Adjusted gross income ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns:				
Income in 1980 ...	423,858	6,506,757	4,275,817	321,738
Income in 1981 ...	448,320	6,884,575	4,479,808	336,497
Nonresident returns:				
Income in 1980	20,547	124,382	68,021	4,604
Income in 1981	19,220	125,571	63,493	4,209

Source: Hawaii State Department of Taxation, data supplied July 17, 1984.

Table 282.-- STATE INCOME TAX RETURNS ON INCOME RECEIVED DURING 1982, BY ADJUSTED GROSS INCOME CLASS

Adjusted gross income class	Number of returns	Adjusted gross income 1/ ($1,000)	Net taxable income ($1,000)	Tax liability ($1,000)
All returns 2/	441,269	7,029,718	4,528,805	343,314
Taxable resident returns 2/ ..	328,004	6,751,111	4,469,031	339,108
$1,000, under $5,000	45,368	153,452	63,520	2,370
$5,000, under $10,000	61,472	457,190	279,753	15,784
$10,000, under $20,000	91,630	1,325,259	891,040	60,539
$20,000, under $30,000	55,596	1,370,158	917,669	67,661
$30,000, under $40,000	36,387	1,261,057	835,334	64,263
$40,000, under $50,000	20,021	889,508	591,575	47,589
$50,000, under $75,000	13,730	804,561	556,403	47,906
$75,000, under $100,000	1,998	170,462	109,448	10,129
$100,000 and over	1,802	319,464	224,290	22,866
Nontaxable resident returns 2/	94,531	160,903	...	...
Loss	3,050	(56,359)	...	...
Under $5,000	84,150	75,623	...	...
$5,000, under $10,000	4,129	28,212	...	...
$10,000 and over	3,202	57,068	...	...
Nonresident returns	18,734	117,704	59,774	4,206

1/ Total and subtotals exclude losses.

2/ Totals may not add up exactly due to rounding.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns 1982, Individuals, p I-1 and I-4.

Table 283.-- MEDIAN ADJUSTED GROSS INCOME OF RESIDENT STATE INCOME TAX RETURNS, BY TYPE OF RETURN: 1972 TO 1982

[In dollars]

Year income was received	Taxable and nontaxable returns			Taxable returns only		
	All returns	Single 1/	Joint	All returns	Single 1/	Joint
1972	7,462	3,284	13,515	9,218	4,553	14,358
1973	7,680	3,262	14,114	9,666	4,650	15,189
1974	7,844	3,774	15,319	9,945	5,193	16,667
1975	8,140	3,890	16,350	10,448	5,406	17,706
1976	(NA)	4,318	(NA)	10,608	5,790	18,705
1977	8,726	4,236	17,716	11,057	5,838	19,718
1978	9,302	4,538	20,276	12,279	6,274	22,335
1979	8,738	4,757	20,073	11,804	6,875	22,636
1980	9,676	5,294	21,510	13,464	7,639	24,980
1981	10,220	5,794	23,321	14,737	8,455	26,881
1982	11,178	6,080	23,737	15,466	9,636	27,285

NA Not available.

1/ Including married filing separately and heads of households.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns, Individuals (annual), and records.

Table 284.-- FEDERAL EXPENDITURES IN HAWAII: 1968 TO 1983

[Thousands of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	All agencies	Department of Defense	Nondefense agencies
1968	848,383	498,196	350,187
1969	987,814	564,957	422,857
1970	963,668	524,474	439,194
1971	1,075,111	622,528	452,583
1972	1,173,340	669,999	503,341
1973	1,435,341	806,565	628,776
1974	1,643,890	943,622	700,268
1975	2,060,344	1,106,976	953,368
1976	2,162,221	1,221,098	941,123
1977	2,065,800	995,085	1,070,715
1978	2,507,095	1,239,947	1,267,148
1979	2,659,230	1,371,860	1,287,370
1980	3,151,277	1,647,987	1,503,290
1981 1/	3,743,067	2,115,627	1,627,440
1982 1/	3,432,592	1,815,801	1,616,791
1983 1/	4,018,517	2,197,720	1,820,797

1/ Data for 1981 and later years may not be exactly comparable with data for earlier years.

Source: U.S. Office of Economic Opportunity (1968-1975) and U.S. Community Services Administration (1976-1980), Federal Outlays in Hawaii (annual report, 1968-1976) and Geographic Distribution of Federal Funds in Hawaii (annual report, 1977-1980); U.S. Bureau of the Census, Federal Expenditures by State (annual report, 1981-1983).

Table 285.-- FEDERAL EXPENDITURES IN HAWAII, BY TYPES: FISCAL YEARS 1981 TO 1983

[Thousands of dollars]

Type of expenditure	1981	1982	1983
All categories	3,743,067	3,432,592	4,018,517
Grants to State and local governments ...	442,955	407,598	456,678
Salaries and wages	1,430,101	1,554,274	1,735,939
Direct payments for individuals	1,007,776	1,106,206	1,253,059
Procurement	849,665	349,507	534,512
Other programs	12,570	15,007	38,329
Department of Defense	2,115,627	1,815,801	2,197,720
Other agencies	1,627,440	1,616,791	1,820,797

Source: U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1981 (February 1983), Federal Expenditures by State for Fiscal Year 1982 (February 1983), and Federal Expenditures by State for Fiscal Year 1983 (March 1984).

Table 286.-- DIRECT FEDERAL EXPENDITURES OR OBLIGATIONS IN HAWAII, BY COUNTIES: FISCAL YEAR 1983

[Thousands of dollars]

County	All agencies	Department of Defense	Nondefense agencies
State total 1/	4,013,543	2,197,720	1,815,823
City and County of Honolulu ..	3,597,098	2,114,024	1,483,074
Hawaii County	142,501	11,754	130,747
Kalawao County	-	-	-
Kauai County	99,370	48,152	51,218
Maui County	121,570	23,790	97,780
State undistributed	53,004	-	53,004

1/ Figures differ somewhat from those in preceding table, because of treatment of Federal grants to State and local governments. In preceding table, figure represented actual expenditures; in this table, Federal grants generally represent obligations and include payments to State and local governments, and grants to nongovernmental recipients.

Source: U.S. Bureau of the Census, Consolidated Federal Funds Report, Fiscal Year 1983, Vol. I: County Areas (March 1984), pp. 14-15.

Table 287.-- FEDERAL AID: 1981 TO 1983

[In thousands of dollars]

Years ended September 30	Amount
1981	442,955
1982	407,598
1983	456,678

Source: U.S. Department of the Treasury, Federal Aid to States, 1982; U.S. Bureau of the Census, Federal Expenditures by State for Fiscal Year 1983.

Table 288.-- PUBLIC BONDED DEBT OF STATE AND COUNTY GOVERNMENTS: 1973 TO 1983

[In millions of dollars. As of December 31]

Year	Total bonded debt 1/	State debt	County debt			
			Honolulu	Maui	Hawaii	Kauai
1973	1,219.4	944.1	212.1	23.9	25.0	14.3
1974	1,274.4	1,005.2	198.5	23.2	33.6	13.9
1975	1,435.9	1,185.6	182.8	22.4	31.8	13.3
1976	1,667.2	1,385.9	211.0	21.0	36.9	12.4
1977	1,775.7	1,483.1	226.9	19.6	34.6	11.5
1978	1,916.8	1,607.1	238.5	18.2	37.3	15.7
1979	1,971.9	1,677.6	224.3	16.8	38.3	14.9
1980	2,054.3	1,764.9	207.5	22.4	45.6	13.8
1981	2,217.9	1,883.6	235.5	21.1	46.2	31.4
1982	2,359.5	2,039.3	235.5	19.8	45.8	19.0
1983	2,545.4	2,235.8	219.5	19.0	52.1	19.0

1/ Outstanding state and county bonds, both general obligation and revenue bonds.

Source: Tax Foundation of Hawaii, Government in Hawaii (annual).

Table 289.-- STATE GENERAL OBLIGATION BOND DEBT: 1973 TO 1983

[In dollars. As of June 30]

Year	G. O. bond debt	Cash reserve for serial bonds	Net debt
1973	689,764,000.00	2,262,632.80	687,501,367.20
1974	770,325,000.00	2,821,305.76	767,503,694.24
1975	810,021,000.00	2,396,217.52	807,624,782.48
1976	1,039,744,000.00	1,422,038.00	1,038,321,962.00
1977	1,165,459,000.00	852,531.27	1,164,606,468.73
1978	1,336,906,000.00	496,979.40	1,336,409,020.60
1979	1,343,780,000.00	139,000.00	1,343,641,000.00
1980	1,418,764,000.00	139,000.00	1,418,625,000.00
1981	1,331,326,266.00	139,000.00	1,331,187,266.00
1982	1,464,486,784.00	-	1,464,486,784.00
1983	1,590,350,534.00	-	1,590,350,534.00

Source: Hawaii State Department of Accounting and General Services, information submitted January 24, 1984.

Table 290.-- FEDERAL, STATE, AND COUNTY EMPLOYMENT: ANNUAL AVERAGES, 1978 TO 1983

Year	Total government	Federal			State	Counties
		Total	Defense 1/	Non-defense		
1978	87,050	29,350	19,100	10,250	43,350	14,350
1979	86,500	29,700	18,850	10,800	43,300	13,500
1980	89,050	30,000	18,700	11,250	45,150	13,900
1981	89,000	30,350	19,400	10,900	45,250	13,350
1982	90,300	31,500	20,400	11,100	45,650	13,150
1983	91,050	32,100	20,850	11,250	45,650	13,300

1/ Air Force, Army, and Navy.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1984.

Table 291.-- STATE CIVIL SERVICE: 1981 TO 1983

[Years ended June 30. The State civil service system does not cover elected or appointed officials, public school teachers, university faculty, and other exempt positions]

Subject	1981	1982	1983
Civil service employees	18,221	18,569	18,478
Department of Education	4,502	4,524	4,044
Department of Health	4,683	4,812	4,833
Department of Social Services and Housing	2,090	2,198	2,436
Department of Transportation	1,846	1,899	1,914
University of Hawaii	1,536	1,544	1,556
All others	3,564	3,592	3,695
Separations	2,633	2,748	1,823
Promotions	866	966	769
Transfers, demotions, and returns after promotions	768	926	703
Classification actions processed	3,127	3,581	2,508
Applications received	21,292	25,475	22,971
Applicants screened	21,110	24,554	22,313
Applicants placed on eligible list	10,445	9,956	12,102
Vacancies filled by competitive and noncompetitive actions	3,187	3,544	4,391

Source: Hawaii State Department of Personnel Services, 1983 Annual Report, pp. 2, 3, and 4.

Table 292.-- STATE SALARY SCHEDULES FOR SELECTED LEVELS: 1982 TO 1984

[In dollars per month. As of July 1. Data refer to lowest and highest rates among six bargaining units classified under the salary range schedules. The bargaining units are: 3, white-collar; 4, white-collar supervisors; 9, registered nurses; 10, hospital and institutional; 11, State Government firefighters; and 13, professional and scientific]

Salary range	Lowest			Highest		
	1982	1983	1984	1982	1983	1984
SR-4	770	770	804	1,261	1,261	1,299
SR-11	1,028	1,028	1,062	1,637	1,637	1,686
SR-21	1,551	1,551	1,598	2,555	2,555	2,632
SR-31/EM-8 ..	2,425	2,425	2,498	4,034	4,034	4,155

Source: Hawaii State Department of Personnel Services, salary schedule records.

Section 9

SOCIAL INSURANCE AND HUMAN SERVICES

This section presents data related to governmental expenditures on social welfare; programs for old-age, survivors, disability and health insurance; public employee retirement; unemployment insurance; aid to the needy; and child and other welfare services. Also included here are selected statistics on United Way campaigns, foundations, and the quality of life.

Total social welfare costs reached $304 million in fiscal 1983, compared with $107 million a decade earlier. About 56 percent of the 1983 total came from State funds and the remainder from the Federal government. The monthly average number of persons served by major welfare programs in 1983 was 64,000, or 6.4 percent of the resident population of the State. Two-thirds of all public assistance payments and 52 percent of all recipient cases were accounted for by aid to families with dependent children. The average monthly payment per case for public assistance was $371, or 63 percent more than in 1973. Participation in the food stamp program included 39,000 households and 101,000 persons. Among workers receiving unemployment compensation in 1983, weekly benefits averaged $123. About 121,000 Hawaii residents were receiving Social Security benefits as of the end of 1983, and about 86,000 were enrolled for Medicare. There were also 14,000 State and County government pensioners in 1982, with annual benefits of $105 million. Child adoptions in 1983 numbered 582. Nineteen foundations reported assests of $145 million when most recently surveyed. The Aloha United Way reported agency allocations of $8.5 million on Oahu and $1.6 million on the Neighbor Islands in 1983. One recent comparative study of the "quality of life" in 277 American metropolitan areas ranked Honolulu 28th, but another ranked Honolulu 47th.

Major data sources include reports and records of the U.S. Department of Health and Human Services, the Hawaii State Department of Social Services and Housing, the Hawaii State Department of Labor and Industrial Relations, the Hawaii State Employees' Retirement System, and the Aloha United Way. Historical Statistics of Hawaii, Section 8, contains data for earlier years. Section 13 of the Statistical Abstract of the United States: 1984 presents comparable Mainland data.

Table 293.-- SOCIAL WELFARE COSTS: 1973 TO 1983

[Thousands of dollars. Years ended June 30]

Year	Total cost	By source of funds		By expenditure category			
		Federal	State	Administration	Medical payments	Money payments	Social service costs
1973	107,237	43,107	64,130	6,757	35,542	64,180	758
1974	111,627	45,782	65,845	7,933	39,096	63,131	1,467
1975	121,643	47,163	74,479	8,262	41,158	70,622	1,601
1976	168,440	67,629	100,811	10,701	60,685	87,956	9,098
1977	194,203	79,151	115,052	13,505	69,677	100,322	10,699
1978	230,111	93,490	136,621	14,206	93,399	111,275	11,231
1979	244,898	101,411	143,487	15,250	104,694	113,854	11,100
1980	255,280	109,734	145,547	18,999	112,024	112,793	11,464
1981	286,709	131,652	155,057	19,595	135,541	118,346	13,227
1982	289,391	121,911	167,480	22,271	143,068	114,811	9,241
1983	303,782	133,498	170,284	26,616	157,996	111,185	7,985

Source: Hawaii State Department of Social Services and Housing, records.

Table 294.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING: 1973 TO 1983, MONTHLY AVERAGES

Year ended June 30	Major programs 1/		Service cases 2/	Medical payments 3/		Average money payments 4/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
1973	24,400	66,535	7,833	3,040	4,612	227.11	82.30
1974	21,713	63,807	7,242	5,653	6,912	237.54	85.10
1975	20,850	59,911	7,777	8,212	8,963	275.20	95.77
1976	24,438	67,594	9,067	10,825	11,675	295.17	106.72
1977	36,534	81,938	12,610	12,303	13,329	307.76	114.52
1978	28,575	75,485	15,000	14,381	15,572	321.63	121.75
1979	27,399	72,928	16,993	13,796	14,890	334.90	150.99
1980	27,219	71,693	16,312	12,932	13,598	337.59	128.17
1981	27,604	72,480	15,281	11,763	12,104	342.67	130.68
1982	26,130	68,835	8,124	11,629	12,228	355.42	135.05
1983	24,157	64,305	6,443	12,858	13,186	371.00	139.56

1/ Old age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance. Old age assistance, aid to the blind and aid to disabled assisted through the Federal Social Security Administration with State supplements excluded beginning January 1, 1974.

2/ Data for 1976 and 1977 are quarterly averages.

3/ Ineligible for money assistance, receiving medical payment only.

4/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 295.-- PERSONS SERVED AND AVERAGE PAYMENTS, FOR PROGRAMS ADMINISTERED BY THE HAWAII STATE DEPARTMENT OF SOCIAL SERVICES AND HOUSING, BY COUNTIES: 1983

[Monthly averages for year ended June 30, 1983]

County	Major programs 1/		Service cases	Medical payments 2/		Average money payments 3/ (dollars)	
	Recipients	Individuals		Cases	Individuals	Per case	Per individual
State total	24,157	64,305	6,443	12,858	13,186	371.00	139.56
Hawaii	3,884	10,300	806	1,780	1,858	367.42	138.70
Maui	1,640	4,407	582	1,010	1,041	365.92	136.39
Honolulu	17,706	47,277	4,520	9,466	9,675	373.75	140.15
Kauai	927	2,322	535	681	700	343.42	137.34

1/ Old-age assistance, aid to disabled, aid to families with dependent children, AFDC unemployed parents, AFDC foster care, child welfare foster care, and general assistance.

2/ Ineligible for money assistance, receiving medical payment only.

3/ Gross obligation basis.

Source: Hawaii State Department of Social Services and Housing, records.

Table 296.-- PUBLIC ASSISTANCE PAYMENTS AND RECIPIENTS: 1982 AND 1983

[Years ended June 30]

Program	Total payments ($1,000)		Recipient cases (monthly average)		Average monthly payment (dollars)	
	1982	1983	1982	1983	1982	1983
All programs	135,882	134,123	35,429	34,183	320	327
Old age assistance 1/ .	9,543	10,042	4,707	4,495	169	186
Aid to the blind 1/ ...	449	481	166	167	226	241
Aid to disabled 1/	13,764	15,068	5,128	5,205	224	241
Aid to families with dependent children 2/	90,495	87,196	18,865	17,764	400	409
Child welfare foster care	1,403	1,393	589	586	199	198
General assistance	20,228	19,943	5,974	5,966	282	278

1/ Assisted through the Federal Social Security Administration, with State supplements (Supplementary Security Payments) included.

2/ Includes AFDC unemployed parent and AFDC foster care.

Source: Hawaii State Department of Social Services and Housing, records.

Table 297.-- FOOD STAMPS: 1982 AND 1983

[Years ended June 30]

Subject	1982	1983
Participation in food stamp program (monthly averages)		
Households, total participating	38,239	38,550
Public assistance recipients	22,022	20,534
Other participants 1/	16,217	18,016
Persons, total participating	99,226	101,119
Public assistance recipients	60,827	58,409
Other participants 1/	38,399	42,710
Food stamp purchase amount and bonus ($1,000)		
Total value of food stamps to recipients	68,173	78,775
Purchase (amount paid for by recipients)	-	-
Bonus or free coupons given to recipients	68,173	78,775

1/ Not receiving public assistance (food stamp only).

Source: Hawaii State Department of Social Services and Housing, records.

Table 298.-- MEDICARE ENROLLMENT AND REIMBURSEMENT: 1982

Coverage	Enrollment, July 1, 1982		Reimbursement, calendar year 1982 ($1,000)	
	Age 65 and over 1/	Under age 65 2/	Age 65 and over 1/	Under age 65 2/
Hospital and/or medical insurance	81,429	7,675	112,879	20,332
Hospital insurance	79,269	7,675	73,735	10,905
Medical insurance	78,609	7,053	39,144	9,427

1/ Persons aged 65 and over entitled to monthly Social Security Administration (SSA) benefits or payments from the Railroad Retirement Board (RRB), persons uninsured for SSA or RRB benefits but transitionally insured for Medicare, and persons aged 65 and over not included in the above groups who purchase hospital insurance and supplementary medical insurance coverage. Also included are persons dually entitled because they are age 65 and over and have end-stage renal disease (ESRD).

2/ Persons under age 65 entitled to SSA disability benefits for at least 24 months, those who are dually entitled because they receive SSA disability benefits and have ESRD, and those deemed disabled solely because of ESRD.

Source: U.S. Department of Health and Human Services, Health Care Financing Administration, Medicare Reimbursement, 1982, pp. 80-81.

Table 299.-- MEDICARE ENROLLMENT OF PERSONS 65 YEARS OLD AND OVER, BY SEX AND COUNTIES: JULY 1, 1983

[Persons enrolled with hospital and/or medical coverage]

County	Both sexes	Male	Female
State total	85,608	42,362	43,246
City and County of Honolulu	61,867	29,729	32,138
Other counties	23,657	12,603	11,054
Hawaii	10,990	5,874	5,116
Kalawao	84	47	37
Kauai	4,772	2,623	2,149
Maui	7,811	4,059	3,752
County not reported	84	30	54

Source: U.S. Bureau of the Census, Population Division, Local Area Population Estimates Branch, memorandum dated June 7, 1984.

Table 300.-- SOCIAL SECURITY BENEFICIARIES AND PAYMENTS: 1973 TO 1983

Year	Number of beneficiaries, December	Monthly amount, December ($1,000)	Total payments, calendar year ($1,000)
1973	82,224	11,202	134,198
1974	87,141	13,433	155,178
1975	91,731	15,629	181,775
1976	96,230	17,894	210,423
1977	101,911	20,669	241,814
1978	105,988	23,464	273,564
1979	109,952	27,462	310,320
1980	113,538	33,078	365,861
1981	115,670	38,155	435,126
1982 1/ ...	118,690	43,029	498,496
1983	121,000	47,000	536,000

1/ Revised from Data Book 1983, table 261.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, records.

Table 301.-- SOCIAL SECURITY POPULATION AGE 65 AND OVER, BY SEX, AGE, AND COUNTY: DECEMBER 1982

[Persons covered by retirement and survivor insurance, including those in non-payment status]

Subject	Number
Total	79,658
Sex:	
Male	40,177
Female	39,481
Age:	
65 to 69 years	29,206
70 to 74 years	21,601
75 to 79 years	14,160
80 to 84 years	8,389
85 to 89 years	4,130
90 to 94 years	1,692
95 years and over	480
County:	
Hawaii	10,329
Honolulu	57,331
Kalawao	89
Kauai	4,553
Maui	7,356

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, data supplied May 1984.

Table 302.-- RETIREMENT, SURVIVOR AND DISABILITY INSURANCE (OASDI) BENEFITS IN CURRENT-PAYMENT STATUS, BY TYPE OF BENEFIT AND COUNTY: DECEMBER 1982

Type of benefit and county	Number of OASDI benefits	Amount of monthly benefits ($1,000)
Total	118,690	43,027
TYPE OF BENEFIT		
Retirement program:		
Retired workers 1/	72,142	30,261
Wives or husbands 1/	10,136	1,979
Children	6,214	906
Survivor program:		
Widows, widowers, or parents	12,161	4,283
Children	8,128	2,302
Disability program:		
Disabled workers	6,614	2,881
Wives or husbands	853	103
Children	2,442	308
Age 62 and over:		
Men	44,740	20,629
Women	46,537	15,506
COUNTY		
Hawaii	15,716	5,663
Honolulu	84,517	30,705
Kalawao	110	42
Kauai	6,868	2,441
Maui	11,479	4,174

1/ Includes special age 72 beneficiaries.

Source: U.S. Department of Health and Human Services, Social Security Administration, Office of Research and Statistics, data supplied May 1984.

Table 303.-- UNEMPLOYMENT INSURANCE: 1973 TO 1983

Calendar year	Covered employment		Insured unemployment		Average weekly total wages (dollars)
	Total	Percent of total jobcount	Total	Percent of total unemployment	
1973 ...	335,615	92	12,107	46	151.17
1974 ...	342,615	91	13,900	47	162.25
1975 ...	350,481	92	18,779	59	174.42
1976 ...	357,770	92	21,480	55	183.87
1977 ...	367,518	92	16,438	55	192.29
1978 ...	384,214	92	11,287	36	207.98
1979 ...	400,311	92	10,381	42	225.84
1980 ...	413,095	93	11,291	56	244.56
1981 ...	417,018	94	12,224	51	260.56
1982 ...	409,511	93	13,656	44	272.96
1983 ...	413,288	93	13,452	45	285.60

Calendar year	Gross benefits 1/ ($1,000)	Weekly benefits 1/		Average benefit duration 1/ (weeks)	Exhaustion rate 1/ (percent)
		Maximum (dollars)	Average (dollars)		
1973 ...	37,014	93	67.57	16.0	30.2
1974 ...	45,208	98	71.86	16.2	35.3
1975 ...	58,942	104	76.34	16.4	34.1
1976 ...	71,574	112	83.84	18.9	48.4
1977 ...	55,823	120	88.68	16.4	36.0
1978 ...	45,653	126	91.25	16.2	34.1
1979 ...	39,864	134	93.07	13.5	23.1
1980 ...	49,222	144	102.91	13.7	22.0
1981 ...	66,194	157	113.59	14.2	24.9
1982 ...	77,788	169	124.34	14.8	29.6
1983 ...	70,392	178	123.22	15.8	34.0

NA Not available.

1/ Regular benefits only. Excludes extended benefits.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), pp. 17, 19, 25, 37, 42, and 43.

Table 304.-- HAWAII STATE EMPLOYEES' RETIREMENT SYSTEM: 1974 TO 1984

Year	Membership, March 31	Pensioners, March 31	Assets, 1/ June 30 (dollars)	Total benefits paid 2/ (dollars)	Average monthly pension 2/ (dollars)	Administration expenses 2/ (dollars)
1974 ..	43,371	7,971	611,675,571	41,130,325	271	487,504
1975 ..	44,363	8,600	683,305,413	46,782,477	297	563,513
1976 ..	45,256	9,263	773,878,470	53,625,776	313	631,714
1977 ..	46,371	10,099	886,596,717	59,158,256	330	725,621
1978 ..	47,273	10,772	1,007,744,828	61,211,832	347	775,393
1979 ..	47,476	11,382	1,144,077,004	70,062,195	352	823,891
1980 ..	48,868	12,052	1,301,853,352	78,415,562	390	932,899
1981 ..	49,426	13,012	1,474,543,376	94,345,203	416	1,069,419
1982 ..	49,806	13,787	1,668,028,237	104,934,660	437	1,373,452
1983 ..	51,578	14,755	1,934,843,400	124,463,477	466	1,272,181
1984 ..	51,609	15,548	2,230,530,600	126,880,230	491	1,211,700

1/ Book value.

2/ Year ended June 30. Data on total benefits paid exclude pensioners' bonus and social security.

Source: Employees' Retirement System of the State of Hawaii, *57th Annual Report, June 30, 1982*, pp. 19 and 34, as corrected, and records.

Table 305.-- CHILD ADOPTIONS: 1980 TO 1983

Type of adoption	1980	1981	1982	1983
Total	670	659	603	582
By relatives	471	429	388	384
By nonrelatives	199	230	215	198
Placed by social agencies ...	123	129	127	149

Source: Hawaii State Department of Social Services and Housing, tabulations from SRS-NCSS-280 Adoption Card.

Table 306.-- FOUNDATIONS: 1980-1982

[Figures are for fiscal year ended December 31, 1981, unless otherwise indicated. A foundation may be defined as a nongovernmental, nonprofit organization, with funds and programs managed by its own trustees or directors, and established to maintain or aid social, educational, charitable, religious, or other activities serving the common welfare, primarily by making grants. Excludes organizations which make general appeals to the public for funds, act as trade associations for industrial or other special groups, are restricted by charter solely to aiding one or several named institutions, or which are captive trusts, within colleges, churches, or other organizations]

Name of foundation	Assets ($1,000)	Grants made ($1,000)
All foundations	145,330.4	8,376.5
Amfac Foundation	1,141.8	784.4
Anthony (Barbara Cox) Foundation	21,690.1	107.4
Atherton Family Foundation	23,330.7	1,583.8
Bohmett Memorial Foundation	1,703.7	86.4
Castle (Harold K. L.) Foundation	30,363.8	952.1
Castle (Samuel N. and Mary) Foundation ...	10,656.9	823.6
Cooke Foundation, Limited 1/	9,032.6	467.8
Davies Foundation 1/	687.6	140.3
Frear (Mary D. and Walter F.) Eleemosynary Trust	4,336.3	194.1
Hawaiian Foundation, The 2/	4,145.8	1,083.9
Ho (Chinn) Foundation	1,377.2	188.2
King's Daughters' Foundation	5,652.7	58.7
McInerny Foundation 3/	15,782.3	825.2
Straub (Gertrude S.) Trust Estate 4/	2,010.8	105.7
Teruya (Albert T. & Wallace T.) Foundation	847.1	112.0
Watumull (Rama) Fund 5/	310.7	106.0
Wilcox (G. N.) Trust	6,906.6	566.1
Wilcox (S. W.) Trust	1,695.8	118.0
Zimmerman (Hans and Clara Davis) Foundation	3,657.9	72.8

1/ Fiscal year ended June 30, 1981.
2/ Fiscal year ended December 31, 1982.
3/ Fiscal year ended September 30, 1982.
4/ Fiscal year ended September 30, 1981.
5/ Fiscal year ended September 30, 1980.

Source: Foundation Center, Foundation Directory (Summer 1983), as retrieved through the Dialog Information Retrieval Service, File 26, on April 6, 1984.

Table 307.-- UNITED WAY REVENUES AND OUTLAYS, BY ISLANDS: 1980 TO 1983

[Dollars]

Year	Four island total 1/	Aloha United Way (Oahu)	Hawaii Island United Way	United Way of Kauai 1/	Maui United Way 1/
TOTAL REVENUES					
1980	9,707,948	8,190,293	636,072	261,899	619,684
1981	10,338,063	8,653,172	693,686	235,922	705,283
1982	10,781,394	9,023,086	740,431	326,338	691,539
1983	11,123,415	9,267,635	737,921	329,755	788,104
CONTRIBUTIONS					
1980	9,371,066	7,890,704	613,528	257,375	609,459
1981	10,271,048	8,647,244	665,253	279,846	678,705
1982	10,593,239	8,837,180	713,677	316,408	681,019
1983	10,930,376	9,133,386	710,113	326,427	760,450
TOTAL OUTLAYS					
1980	9,399,208	7,940,862	614,606	256,536	587,204
1981	10,393,563	8,725,788	691,370	282,945	693,460
1982	10,548,284	9,018,346	726,288	323,981	777,313
1983	11,237,458	9,387,948	749,264	341,681	758,565
AGENCY ALLOCATIONS					
1980	8,554,649	7,287,382	528,000	233,700	505,567
1981	9,308,287	7,867,395	595,665	258,500	586,727
1982	9,743,142	8,170,563	619,850	283,500	669,229
1983	10,072,529	8,490,278	632,779	299,354	650,118

1/ Revised from Data Book 1983, table 269.

Source: Aloha United Way, Annual Report (annual); Hawaii Island United Way, Inc., Financial Statements (annual), and records; United Way of Kauai and Maui United Way, records.

Table 308.-- SOCIAL SERVICE ORGANIZATIONS: 1977

[Data are shown only for tax-exempt individual and family social service organizations with payroll]

Subject	Amount
Number of establishments	65
Payroll, entire year ($1,000)	6,967
Paid employees, mid-March	994
Percent of establishments providing --	
Job counseling	45.7
Other counseling	74.3
Adoption and foster care service	5.7
Traveler's aid service	5.7
Disaster and temporary relief service	14.3
Recreation service	25.7
Neighborhood development service	28.6
Fund-raising, exc. on a fee basis	25.7
Offender rehabilitation service	17.1
Alcohol and/or drug rehabilitation services	22.9
Other	51.4

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 31.

Table 309.-- QUALITY OF LIFE INDEX RANKINGS, FOR THE STATE AND HONOLULU: 1960 TO 1980

Area ranked and authority	Year of data	No. of areas ranked	Local rank
State:			
Midwest Research Institute 1/	1960	51	14
Midwest Research Institute 2/	1970	51	15
Lifestyle Magazine 3/	(NA)	51	6
Honolulu:			
Griffin and Dee 4/	1960	48	4
Midwest Research Institute 5/	1970	65	31
University of Nebraska 6/	1970-76	100	7
Boyer and Savageau 7/	1975-80	277	28
Pierce 8/	(NA)	277	47

NA Not available.

1/ John O. Wilson, The Quality of Life in America (Midwest Research Institute Report, Winter 1967), pp. 10-11; cited in Ben-Chieh Liu, The Quality of Life in the United States 1970: Index, Rating, and Statistics (Midwest Research Institute, May 1973), p. 23.

2/ Liu, op. cit., p. 23.

3/ Lifestyle Publishing, Inc., Lifestyle Magazine, November 1972, p. 18; cited in Liu, op. cit., p. 23.

4/ John M. Griffin and Norbert Dee, "Measuring the Intangible: How to Quantify Quality of Life," Industrial Management, September-October 1975, pp. 9-15, espec. p. 10. Based largely on data for cities (rather than SMSAs).

5/ Ben-Chieh Liu, Quality of Life Indicators in the U.S. Metropolitan Areas, 1970 (Summary) (Midwest Research Institute, May 1975), p. 53. Based on data for SMSAs.

6/ Ralph H. Todd, "A City Index: Measurement of a City's Attractiveness," Review of Applied Urban Research (University of Nebraska at Omaha, Center for Applied Urban Research), Vol. 5, No. 7, July 1977, pp. 1-19. Based on data for cities rather than SMSAs.

7/ Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Co., 1981), pp. 370 and 374. Based on SMSA data for "late 1970s through 1980."

8/ Paper presented by Robert Pierce to Association of American Geographers in Washington, D.C., April 24, 1984; cited in Rick Carroll, "Most Livable? Honolulu rated 47th best city, based on 9 factors," Honolulu Advertiser, April 25, 1984, p. A-3. Based on data for SMSAs.

Sources cited in above footnotes.

Table 310.-- QUALITY OF LIFE INDEX RANKINGS, BY SUBJECT, FOR THE HONOLULU STANDARD METROPOLITAN STATISTICAL AREA: 1975-1980

[Data refer to the rank of the Honolulu SMSA among the 277 SMSAs in the United States, based on data for the late 1970s through 1980]

Subject	Rank
Cumulative score ranking 1/	28
Climatic mildness	18
Cost of owning a single-family home	277
Health care and environment	62
Safety from crime	137
Transportation supply	11
Educational effort and opportunities	207
Recreational opportunities	35
Supply of cultural facilities	21
Personal economic opportunities	115

1/ Based on an overall score of 883. The first-ranking SMSA, Atlanta, had a score of 679; the last-ranking SMSA, Lawrence-Haverhill, had a score of 1,878.

Source: Richard Boyer and David Savageau, Places Rated Almanac (Rand McNally and Company, 1981), pp. 372-378.

Section 10

NATIONAL DEFENSE

This section presents statistics relating to the armed forces and their dependents, national guard strength, civilian employment in national defense, veterans, military housing, and expenditures by the armed forces. Further information appears in sections 1, 2, 6, 11, 12, 14, 17, 22, and 23.

There were approximately 60,800 officers and enlisted men (including 4,500 aboard ships homeported in Hawaii) and 67,100 military dependents in the Islands as of July 1, 1984. This number has been relatively stable in recent years, but at the height of World War II more than 400,000 uniformed personnel were present. The Navy alone accounts for one-third of the current total. More than 11,400 Hawaii residents were in the armed forces worldwide in 1984. The importance of national defense in Hawaii can be further measured by total expenditures ($1.85 billion), military prime contract awards ($639 million), civilian employment (20,800), veterans in civil life (98,000), military personnel receiving retired pay (10,000 men, receiving $11.3 million monthly), military-connected pupils in public schools (19,700), military housing (19,200 units), and land used by the armed forces (over 121,000 acres). Defense expenditures are second only to tourism as a source of income to Hawaii.

The Department of Planning and Economic Development has, since 1959, issued periodic reports on *Military Personnel and Dependents in Hawaii*. Other published sources include reports of the U.S. Bureau of the Census, the Administrator of Veterans Affairs, the U.S. Department of Defense, the Hawaii State Department of Labor and Industrial Relations, Department of Defense, and Department of Education, and the Hawaii State Census Statistical Areas Committee. Definitions used by these sources frequently differ to some degree, and care is accordingly necessary in comparing data issued by two or more agencies. In mid-1982, for example, the number of armed forces in Hawaii was reported as 53,915 by DOD, 54,879 by the Bureau of the Census, and 61,107 by the local commanding officers reporting to DPED. *Historical Statistics of Hawaii*, Section 26, includes series on the armed forces dating back to 1795. Section 12 of the *Statistical Abstract of the United States: 1984* presents data on national defense and veterans affairs for other States and the entire nation.

Table 311.-- HAWAII RESIDENTS ON ACTIVE DUTY IN THE ARMED FORCES WORLDWIDE: 1982 TO 1984

[Based on home of record]

Date	Number
1982: June 30	11,926
1983: June 30	11,641
1984: June 30	11,466

Source: U.S. Department of Defense, Manpower Data Center, records.

Table 312.-- ARMED FORCES AND DEPENDENTS: 1982 TO 1984

[Includes Navy personnel in Hawaiian waters, regardless of home port, and excludes all Coast Guard personnel; for these reasons, data differ somewhat from those in the following table]

Year	Active-duty military personnel in Hawaii, June 30			Dependents located in Hawaii, March 31 1/
	Total	Shore-based 2/	Afloat 3/	
1982	53,915	45,796	8,119	53,967
1983	(NA)	46,319	(NA)	52,160
1984	(NA)	47,060	(NA)	53,576

NA Not available.

1/ Including dependents of Hawaii residents stationed out of the State, if those dependents remained in Hawaii.

2/ Including personnel afloat and mobile but temporarily shorebased.

3/ Navy personnel afloat, identified with nearest port.

Source: Department of Defense, Washington, Headquarters Services, Information Operations and Reports, Department of Defense Worldwide Manpower Distribution by Geographical Area, June 30, 1983, pp. 3 and 29, and records.

Table 313.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES: 1970 TO 1984

[Includes Navy and Coast Guard personnel afloat on a homeported basis. Data differ somewhat from similar series compiled by the Bureau of the Census and Department of Defense, reported elsewhere in this volume]

Date	Personnel and dependents	Military personnel 1/			Dependents in Hawaii	Military families
		Total	Ashore	Aboard ship		
1970: April 1 ..	117,943	56,085	41,362	14,723	61,858	20,558
July 1 ...	111,549	53,768	39,822	13,946	57,781	20,568
1971: July 1 ...	112,943	50,762	35,824	14,938	62,181	23,184
1972: July 1 ...	118,760	52,538	37,124	15,414	66,222	23,688
1973: July 1 ...	128,082	57,783	43,064	14,719	70,299	25,264
1974: July 1 ...	126,882	58,558	45,369	13,189	68,324	29,082
1975: July 1 ...	121,911	58,205	45,589	12,616	63,706	26,122
1976: July 1 ...	126,694	59,737	46,453	13,284	66,957	26,395
1977: July 1 ...	123,471	58,466	45,811	12,655	65,005	25,927
1978: July 1 ...	119,200	58,106	46,001	12,105	61,094	25,400
1979: July 1 ...	122,386	57,868	44,915	12,953	64,518	27,835
1980: April 1 ..	125,042	61,019	48,813	12,206	64,023	26,129
1981: July 1 ...	125,865	61,521	46,255	15,266	64,344	25,893
1982: July 1 ...	127,816	61,107	54,184	6,923	66,709	26,009
1983: July 1 ...	125,273	59,021	53,755	5,266	66,252	26,791
1984: July 1 ...	127,887	60,804	56,321	4,483	67,083	31,415

1/ Beginning in 1982, ship crews living ashore are included with the ashore total. The number of crew members ashore increased sharply between 1981 and 1982, partly because of the increased housing allowance offered to Navy personnel after June 1, 1982, but primarily because of the reclassification of personnel stationed aboard ship but living ashore.

Source follows next table.

Table 314.-- MILITARY PERSONNEL, DEPENDENTS, AND FAMILIES, BY SERVICE AND ISLAND: JULY 1, 1984

[See headnote to preceding table]

Island and service	Military personnel				Dependents in Hawaii	Military families
	Ashore and afloat	Ashore		Aboard ship		
		In hsg. units	In barracks			
State total ..	60,804	39,754	16,567	4,483	67,083	31,415
By island:						
Oahu	60,440	39,514	16,447	4,479	66,652	31,225
Hawaii	155	92	61	2	178	74
Maui	34	28	4	2	42	22
Kauai	152	120	32	-	211	94
Kure Atoll	23	-	23	-	-	-
By service:						
Air Force	6,925	5,621	1,304	-	10,109	4,193
Army	19,195	12,859	6,336	-	24,823	11,345
Coast Guard	1,167	872	150	145	1,164	445
Marine Corps	11,101	5,037	4,603	1,461	8,284	3,742
Navy	22,416	15,365	4,174	2,877	22,703	11,690

Source: Hawaii State Department of Planning and Economic Development, Military Personnel and Dependents in Hawaii, 1984 (Statistical Report 168, October 10, 1984).

Table 315.-- NATIONAL GUARD STRENGTH: 1979 TO 1984

[Actual strength as of June 30]

Year	Total	Air National Guard	Army National Guard
1979	5,394	1,872	3,522
1980	5,378	1,910	3,468
1981	5,338	1,943	3,395
1982	5,720	2,022	3,698
1983	5,799	2,031	3,768
1984	5,866	2,073	3,793

Source: Hawaii State Department of Defense, Annual Report for years specified.

Table 316.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY SERVICE: SEPTEMBER 30, 1983

Category	All services	Army	Navy	Air Force	Other defense agencies
Total	65,959	22,265	34,316	9,273	105
Military personnel	45,715	17,690	21,347	6,678	-
Civilian personnel	20,244	4,575	12,969	2,595	105

Source follows next table.

Table 317.-- DEPARTMENT OF DEFENSE PERSONNEL, MILITARY AND CIVILIAN, BY LOCATION: SEPTEMBER 30, 1983

Installation or geographic area	Total DoD	Military personnel	Civilian personnel
State total	65,959	45,715	20,244
Aiea	989	742	247
Barbers Point NAS	2,395	1,938	457
Ford Island	397	357	40
Fort Shafter	1,724	-	1,724
Halawa Heights	314	311	3
Hickam AFB	7,449	5,194	2,255
Honolulu	3,594	1,610	1,984
Kaneohe	10,118	9,505	613
Kapalama	218	5	213
Kauai	211	145	66
Kunia	863	845	18
Lualualei	602	261	341
Pearl Harbor	16,553	7,230	9,323
Schofield Barracks	14,499	13,500	999
Tripler Army Medical Center	2,414	1,444	970
Wahiawa	1,047	849	198
Waialua	591	554	37
Wheeler AFB	1,481	1,037	444
Other	500	188	312

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Distribution of Personnel by State and by Selected Locations, September 30, 1983, p. 28.

Table 318.-- CIVILIAN EMPLOYMENT IN THE AIR FORCE, ARMY, AND NAVY: ANNUAL AVERAGES, 1973 TO 1983

Year	Total	Air Force	Army	Navy
1973	20,600	3,300	6,050	11,250
1974	20,200	3,300	5,700	11,200
1975	19,700	3,300	5,300	11,100
1976	19,200	3,200	4,950	11,050
1977	19,000	3,050	4,750	11,200
1978	19,100	2,850	4,500	11,750
1979	18,850	2,750	4,250	11,850
1980	18,700	2,650	4,100	11,950
1981	19,400	2,600	4,300	12,500
1982	20,400	2,650	4,650	13,100
1983	20,850	2,650	4,850	13,350

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1984.

Table 319.-- HOUSING UNITS OWNED BY THE ARMED FORCES: 1983 AND 1984

[As of April 1]

Year	All services	Air Force	Army	Coast Guard	Navy and Marines
1983	19,238	2,957	7,142	315	8,824
1984	19,228	2,957	7,141	315	8,815

Source: Hawaii State Census Statistical Areas Committee, The Geographic Distribution of Government Housing in Hawaii, 1984 (Report CTC-58, July 20, 1984).

Table 320.-- DEFENSE EXPENDITURES: 1973 TO 1983

[In thousands of dollars. Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts]

Year	All categories	Military payroll	Civilian payroll	Supplies, equipment, services
1973	840,851	335,475	257,521	247,855
1974	897,861	381,281	271,007	245,573
1975	982,779	396,413	281,955	304,411
1976	1,034,226	420,051	301,347	312,828
1977	1,086,561	432,754	325,778	328,029
1978	1,155,517	465,449	354,530	335,538
1979	1,221,784	497,840	372,596	351,348
1980	1,317,402	533,691	418,759	364,952
1981	1,449,328	612,761	450,684	385,883
1982	1,693,410	716,841	508,569	468,000
1983	1,848,175	793,782	558,220	496,175
SERVICE: 1982				
Air Force	173,745	93,321	31,806	48,618
Army	611,586	299,072	104,543	207,971
Coast Guard	29,893	23,644	3,587	2,662
Navy and Marines	878,186	300,804	368,633	208,749
SERVICE: 1983				
Air Force	182,587	103,041	36,003	43,544
Army	702,688	350,092	116,600	235,997
Coast Guard	26,955	20,052	3,827	3,076
Navy and Marines	935,945	320,597	401,790	213,558

Source: Quarterly reports submitted to DPED by armed forces.

Table 321.-- MILITARY PRIME CONTRACT AWARDS, BY PROGRAM: 1981 TO 1983

[Net value of Department of Defense prime contract awards over $25,000, for the 25 major procurement programs. In thousands of dollars]

Procurement program	Fiscal years		
	1981	1982	1983
All major programs	590,746	526,143	638,975
Ships	9,348	16,998	17,745
Electronics and communication equipment	16,215	16,498	16,207
Petroleum	243,135	269,150	267,916
Subsistence	14,482	21,059	17,982
Construction	203,376	101,634	167,831
Services	96,359	86,631	123,119
Other major programs 1/	7,831	14,173	28,175

1/ For details, see source.

Source: U.S. Department of Defense, Washington Headquarters Services, Directorate for Information Operations and Reports, Department of Defense Prime Contract Awards by Region and State, Fiscal Years, 1981, 1982, and 1983, p. 29.

Table 322.-- VETERAN STATUS BY COUNTIES: 1980

Subject	State total 1/	Counties			
		Hawaii	Honolulu	Kauai	Maui
Male veterans	98,633	10,117	77,356	4,133	7,015
Percent of civilian males, 16 years and over	31.1	29.9	32.0	28.4	26.4
Female veterans	5,141	359	4,381	129	272
Percent of civilian females, 16 years and over	1.5	1.1	1.6	0.9	1.0

1/ Includes Kalawao County, not shown separately.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70 and 179.

Table 323.-- VETERANS IN CIVIL LIFE: 1979 AND 1984

Period of service	March 31, 1979	March 31, 1984
Total veterans 1/	94,000	98,000
War veterans 1/	79,000	79,000
Vietnam era	33,000	35,000
Korean conflict	20,000	21,000
World War II	30,000	33,000
World War I	1,000	(Z)
Post-Vietnam era only 2/	2,000	7,000
Between Korea and Vietnam only	13,000	10,000
Other peacetime veterans 3/	...	1,000

Z Under 500.

1/ Veterans who served in more than one conflict are counted only once in the totals and subtotals.

2/ Service only after May 7, 1975.

3/ Includes those who served only between World War I and World War II, and those who served only between World War II and the Korean conflict.

Source: Veterans Administration, Veteran Population (semi-annual report).

Table 324.-- MILITARY PERSONNEL RECEIVING RETIRED PAY FROM THE DEPARTMENT OF DEFENSE: SEPTEMBER 30, 1983

Service	Number of personnel		Monthly payment 2/ ($1,000)	Payment per person paid 2/ (dollars)
	Retired 1/	Paid by DOD		
Dept. of Defense	10,835	10,025	11,293	1,126
Army	4,530	4,087	4,324	1,058
Navy	2,994	2,811	3,170	1,128
Marine Corps	726	648	793	1,224
Air Force	2,585	2,479	3,006	1,213

1/ Includes retired personnel not receiving retired pay from the Department of Defense.

2/ Before deductions for withholding taxes and allotments, but after deductions for survivor benefits, dual compensation, etc.

Source: U.S. Department of Defense, Office of the Actuary, Defense Manpower Data Center, FY 1983 DOD Statistical Report on the Military Retirement System (1984), p. 17.

Section 11

LABOR FORCE, EMPLOYMENT, AND EARNINGS

This section presents statistics on the size and composition of the labor force, employment by sex, occupation, and industry, work disability, wage rates, payrolls, hours, industrial safety, unionization, and strikes.

The civilian labor force averaged 473,000 in 1983; of this total, 442,000 persons were employed and 30,000 were unemployed and seeking work. The civilian jobcount rose from 365,000 in 1973 to 445,000 a decade later. (The jobcount differs from employment because the latter counts multiple jobholders -- "moonlighters" -- only once.) The unemployment rate averaged 6.5 percent in 1983, with island levels ranging from 5.7 to 20.0 percent. In 1980, 57.8 percent of all females 16 years old and over were in the civilian labor force -- the fourth highest ratio in the nation. By occupation, one out of four civilian workers is classified as professional or managerial. Activities with especially large numbers of employees include government (91,000 in 1983), services (104,000), and retail trade (88,000). The average annual earnings of wage and salary workers under the Hawaii Employment Security Law reached $16,100 in 1983, almost twice the 1973 average. Average weekly hours in 1983 ranged from 31.9 (for retail trade) to 41.7 (for communications and utilities). Labor union membership was estimated at 113,000 in 1980. Work stoppages in 1983 involved 2,838 workers.

Analyzing labor force trends is greatly complicated by shifts in sources and estimating methods. Prior to 1976, the number of employed civilians was estimated from data on the number of jobs covered by the Hawaii State Employment Security Law, as adjusted to exclude the double-counting thought to be present. Then, beginning in 1976, the labor force estimates were based primarily on the Current Population Survey, a relatively small household survey subject to considerable sampling variation. The 1970-1975 estimates were later revised for greater comparability with the 1976-1983 data.

Principal sources for the data on labor force, employment, hours, earnings, unions and strikes are the decennial reports of the U.S. Bureau of the Census, the same agency's Current Population Survey, reports by the U.S. Bureau of Labor Statistics, monthly and annual tabulations by the Hawaii State Department of Labor and Industrial Relations, and annual surveys of pay rates by the Hawaii Employers Council. Historical Statistics of Hawaii, Section 4, includes figures for earlier years. Statistics for the nation as a whole are published in Section 14 of the Statistical Abstract of the United States: 1984.

Table 325.-- LABOR FORCE STATUS, BY SEX: 1950 TO 1980

Sex and labor force status	1950 1/	1960	1970	1980
BOTH SEXES				
Persons 16 years and over	351,375	402,937	522,018	723,479
Labor force	207,952	263,450	344,269	494,223
Armed forces	22,856	47,255	49,785	58,443
Civilian labor force	185,096	216,195	294,484	435,780
Employed	167,571	207,456	285,556	415,181
Unemployed	17,525	8,739	8,928	20,599
Percent of civ. labor force	9.5	4.0	3.0	4.7
Not in labor force	143,423	139,487	177,749	229,256
MALE				
Persons 16 years and over	197,864	219,822	272,726	370,683
Labor force	157,088	186,507	222,221	290,420
Armed forces	22,572	46,626	48,860	54,032
Civilian labor force	134,516	139,881	173,361	236,388
Employed	120,972	135,481	168,940	225,331
Unemployed	13,544	4,400	4,421	11,057
Percent of civ. labor force	10.1	3.1	2.6	4.7
Not in labor force	40,776	33,315	50,505	80,263
FEMALE				
Persons 16 years and over	153,511	183,115	249,292	352,796
Labor force	50,864	76,943	122,048	203,803
Armed forces	284	629	925	4,411
Civilian labor force	50,580	76,314	121,123	199,392
Employed	46,599	71,975	116,616	189,850
Unemployed	3,981	4,339	4,507	9,542
Percent of civ. labor force	7.9	5.7	3.7	4.8
Not in labor force	102,647	106,172	127,244	148,993

1/ Data refer to persons 14 years and over.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Chracteristics, Hawaii, PC(1)-13C (1962), tables 53 and 54, and Detailed Characteristics, Hawaii, PC(1)-13D (1962), table 115; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 53; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 61.

Table 326.-- LABOR FORCE PARTICIPATION RATES, TOTAL AND CIVILIAN, BY AGE AND SEX: 1960 TO 1980

Sex and age	Percent of total population in labor force			Percent of civilian population in civilian labor force 1/		
	1960	1970	1980	1960	1970	1980
Persons 16 years and over .	65.4	65.9	68.3	60.8	62.4	65.5
Male	84.8	81.5	78.3	80.8	77.4	74.7
16 to 19 years	56.2	47.6	53.5	33.0	40.1	45.3
20 to 24 years	93.5	89.5	88.6	84.7	79.8	81.9
25 to 54 years	96.1	95.0	93.2	95.2	94.1	92.2
55 to 64 years	82.3	81.4	71.0	82.2	81.3	70.8
65 years and over	22.9	22.0	20.0	22.9	21.8	20.0
Female	42.0	49.0	57.8	41.8	48.8	57.2
16 to 19 years	25.9	33.9	42.3	25.8	33.8	41.5
20 to 24 years	46.7	58.8	67.5	46.1	58.3	66.1
25 to 54 years	48.6	56.5	69.6	48.5	56.4	69.2
55 to 64 years	35.1	43.2	48.9	35.0	43.1	48.9
65 years and over	9.4	8.7	9.0	9.4	8.6	9.0

1/ Data exclude armed forces but include their dependents.

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, Detailed Characteristics, Hawaii, Final Report PC(1)-13D (1962), table 115; 1970 Census of Population, Detailed Characteristics, Hawaii, PC(1)-D13 (July 1972), table 164; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 327.-- LABOR FORCE STATUS, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Persons 16 years and over	723,479	67,205	574,903	144	28,629	52,598
Labor force	494,223	41,214	397,889	82	18,998	36,040
Percent of persons 16 years and over	68.3	61.3	69.2	56.9	66.4	68.5
Civilian labor force	435,780	41,006	339,863	82	18,789	36,040
Employed	415,181	38,150	324,113	82	18,223	34,613
Unemployed	20,599	2,856	15,750	-	566	1,427
Percent of civilian labor force	4.7	7.0	4.6	-	3.0	4.0
Not in labor force	229,256	25,991	177,014	62	9,631	16,558
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
Labor force	203,803	17,013	162,998	35	8,077	15,680
Percent of female, 16 years and over	57.8	51.3	58.3	62.5	58.2	60.3
Civilian labor force	199,392	17,007	158,618	35	8,052	15,680
Employed	189,850	15,875	151,089	35	7,756	15,095
Unemployed	9,542	1,132	7,529	-	296	585
Percent of civilian labor force	4.8	6.7	4.7	-	3.7	3.7
Not in labor force	148,993	16,147	116,713	21	5,794	10,318
Female, 16 years and over	352,796	33,160	279,711	56	13,871	25,998
With own children under 6 years	62,606	6,679	48,648	-	2,632	4,647
In labor force	32,215	3,244	24,828	-	1,467	2,676
With own children 6 to 17 years only	65,359	5,661	52,415	-	2,681	4,602
In labor force	45,523	3,864	36,248	-	1,992	3,419

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC 80-1-C13 (June 1983), tables 67 and 176.

Table 328.-- LABOR FORCE STATUS, BY AGE AND SEX: 1980

Sex and age	Total	Armed forces	Civilian labor force			Not in labor force
			Total	Em-ployed	Unem-ployed	
Persons 16 years and over	723,479	58,443	435,780	415,181	20,599	229,256
Male	370,683	54,032	236,388	225,331	11,057	80,263
16 to 19 years	37,481	5,598	14,441	12,658	1,783	17,442
20 to 24 years	59,293	21,970	30,569	28,079	2,490	6,754
25 to 54 years	192,705	26,207	153,456	147,844	5,612	13,042
55 to 64 years	43,030	248	30,282	29,346	936	12,500
65 years and over	38,174	9	7,640	7,404	236	30,525
Female	352,796	4,411	199,392	189,850	9,542	148,993
16 to 19 years	32,403	411	13,288	11,734	1,554	18,704
20 to 24 years	46,694	1,937	29,581	27,514	2,067	15,176
25 to 54 years	192,675	2,033	132,002	126,889	5,113	58,640
55 to 64 years	43,233	30	21,109	20,483	626	22,094
65 years and over	37,791	-	3,412	3,230	182	34,379

Age	Percent of total population in labor force		Percent of civilian population in civilian labor force		Percent of civilian labor force unemployed	
	Male	Female	Male	Female	Male	Female
Persons 16 years and over .	78.3	57.8	74.7	57.2	4.7	4.8
16 to 19 years	53.5	42.3	45.3	41.5	12.3	11.7
20 to 24 years	88.6	67.5	81.9	66.1	8.1	7.0
25 to 54 years	93.2	69.6	92.2	69.2	3.7	3.9
55 to 64 years	71.0	48.9	70.8	48.9	3.1	3.0
65 years and over	20.0	9.0	20.0	9.0	3.1	5.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 329.-- LABOR FORCE STATUS IN 1979, BY SEX: 1980

Labor force status in 1979	Male	Female
Persons 16 years and over, in labor force in 1979	304,932	227,073
Worked in 1979	300,738	222,531
50 to 52 weeks	210,996	124,833
48 to 49 weeks	17,414	12,900
40 to 47 weeks	20,240	19,682
27 to 39 weeks	15,301	19,590
14 to 26 weeks	19,024	23,157
1 to 13 weeks	17,763	22,369
Usually worked 35 or more hours per week	257,445	157,939
50 to 52 weeks	194,164	103,250
27 to 49 weeks	41,341	33,504
1 to 26 weeks	21,940	21,185
With unemployment in 1979	41,669	38,585
Percent of those in labor force in 1979	13.7	17.0
Unemployed 1 to 4 weeks	12,611	15,156
Unemployed 5 to 14 weeks	13,509	11,914
Unemployed 15 or more weeks	15,549	11,515
Mean weeks of unemployment	14.9	12.7

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70.

Table 330.-- WORKERS IN FAMILY IN 1979: 1980

Workers in family in 1979	The State	Oahu	Other islands
Families	227,974	178,516	49,458
No workers	21,137	15,152	5,985
1 worker	65,930	51,611	14,319
2 workers	99,415	78,501	20,914
3 or more workers	41,492	33,252	8,240
Married-couple families	188,933	147,829	41,104
No workers	14,266	9,857	4,409
1 worker	48,743	38,282	10,461
2 workers	89,474	70,542	18,932
Husband and wife worked	78,500	61,837	16,663
3 or more workers	36,450	29,148	7,302
Husband and wife worked	29,581	23,549	6,032
Female householder, no husband present ..	28,514	22,695	5,819
No workers	5,850	4,583	1,267
1 worker	12,538	9,871	2,667
2 workers	6,654	5,394	1,260
3 or more workers	3,472	2,847	625

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 70.

Table 331.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE: ANNUAL AVERAGES, 1973 TO 1983

Year	Civilian labor force	Civilian employment	Unemployed	
			Number	Percent
1973	364,600	338,350	26,250	7.2
1974	375,000	345,350	29,650	7.9
1975	382,950	351,100	31,850	8.3
1976	409,000	369,000	40,000	9.8
1977	419,000	388,000	31,000	7.4
1978	417,000	385,000	32,000	7.7
1979 1/ .	421,000	394,000	26,000	6.3
1980	439,000	417,000	21,000	4.9
1981	450,000	426,000	24,000	5.4
1982 1/ .	460,000	430,000	31,000	6.7
1983	473,000	442,000	30,000	6.5

1/ Revised from Data Book 1983, table 289.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1984.

Table 332.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1973 TO 1983

[Data for 1980 and later years are not directly comparable to estimates for earlier years. Island data may not add exactly to State totals in preceding table]

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
CIVILIAN LABOR FORCE							
1973	292,650	32,100	15,000	24,850	1,450	20,400	2,950
1974	301,100	33,150	15,050	25,800	1,550	21,300	2,950
1975	304,200	34,600	16,300	27,800	1,600	23,200	3,000
1976	323,950	37,000	17,750	30,350	1,650	25,550	3,100
1977	330,500	37,850	18,550	32,150	1,700	27,200	3,250
1978 1/ ...	328,300	37,350	18,300	33,050	1,800	27,650	3,600
1979 1/ ...	330,350	37,200	18,450	34,050	1,750	28,600	3,700
1980 1/ ...	339,550	41,850	19,950	36,650	1,250	33,050	2,300
1981 1/ ...	346,200	44,150	20,550	39,050	1,250	35,350	2,450
1982 1/ ...	352,050	45,450	21,300	42,200	1,300	38,300	2,600
1983	360,050	46,650	22,000	43,300	1,100	39,500	2,700
CIVILIAN EMPLOYMENT							
1973	272,600	29,500	13,850	22,450	1,350	18,650	2,450
1974	278,400	29,900	13,750	23,350	1,400	19,400	2,500
1975	280,050	31,150	14,800	25,050	1,400	21,100	2,550
1976	292,950	32,800	16,050	27,150	1,450	23,050	2,650
1977	306,500	34,350	17,350	29,800	1,600	25,300	2,900
1978	303,600	33,700	17,100	30,650	1,600	25,800	3,200
1979	310,300	34,250	17,450	32,000	1,650	27,050	3,300
1980	323,950	39,200	19,100	34,750	1,150	31,600	2,000
1981 1/ ..	329,150	40,750	19,400	36,700	1,100	33,500	2,100
1982 1/ ..	330,550	41,050	19,550	38,850	1,050	35,600	2,200
1983	339,450	42,400	20,300	39,850	1,000	36,700	2,150

Continued on next page.

Table 332.-- EMPLOYMENT STATUS OF THE CIVILIAN LABOR FORCE, FOR COUNTIES AND ISLANDS: ANNUAL AVERAGES, 1973 TO 1983 -- Con.

Year	Oahu	Hawaii County	Kauai County	Maui County			
				County total	Lanai	Maui	Molokai
UNEMPLOYED							
1973	20,100	2,600	1,150	2,400	150	1,750	500
1974	22,700	3,250	1,300	2,450	150	1,850	450
1975	24,200	3,450	1,500	2,750	200	2,100	450
1976	30,950	4,200	1,650	3,200	200	2,500	450
1977	23,950	3,450	1,200	2,350	150	1,900	350
1978 1/ ..	24,700	3,650	1,200	2,400	200	1,850	400
1979 1/ ..	20,050	2,900	1,000	2,050	100	1,550	400
1980 1/ ..	15,600	2,650	850	1,900	100	1,450	350
1981 1/ ..	17,100	3,400	1,200	2,350	150	1,900	300
1982 1/ ..	21,500	4,450	1,700	3,350	250	2,700	400
1983	20,600	4,250	1,700	3,450	100	2,800	550
PERCENT UNEMPLOYED							
1973	6.9	8.2	7.6	9.7	8.6	8.6	17.1
1974	7.5	9.8	8.5	9.5	9.1	8.8	14.5
1975	8.0	9.9	9.1	9.8	11.4	9.0	15.7
1976	9.6	11.3	9.4	10.5	13.1	9.8	14.5
1977	7.3	9.2	6.5	7.4	8.0	7.0	10.1
1978 1/ ..	7.5	9.8	6.6	7.3	10.5	6.7	10.6
1979 1/ ..	6.1	7.8	5.3	6.1	5.5	5.5	10.8
1980 1/ ..	4.6	6.3	4.2	5.2	8.3	4.4	14.4
1981 1/ ..	4.9	7.6	5.8	6.0	10.7	5.3	13.0
1982 1/ ..	6.1	9.8	8.0	7.9	18.3	7.0	15.4
1983	5.7	9.1	7.7	7.9	9.4	7.1	20.0

1/ Revised from Data Book 1983, table 290.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), tables 2-8, as revised annually through April 1984.

Table 333.-- LABOR FORCE, TOTAL AND CIVILIAN, BY RACE AND SPANISH ORIGIN: 1980

Race and Spanish origin	Total labor force 1/	Civilian labor force 2/
Persons 16 years old and over	494,223	435,780
Race: 3/		
White	177,584	134,499
Black	11,425	3,638
American Indian	1,635	1,102
Eskimo	28	19
Aleut	18	18
Japanese	137,158	136,235
Chinese	29,376	29,200
Filipino	61,300	59,118
Korean	9,040	8,887
Asian Indian	376	369
Vietnamese	1,225	1,219
Hawaiian	48,736	48,046
Guamanian	657	489
Samoan	4,030	3,656
Other Asian and Pacific Islander	2,606	2,543
Race not elsewhere classified	9,029	6,742
Spanish origin: 4/		
Of Spanish origin	29,566	25,444
Not of Spanish origin	464,657	410,336

1/ Includes armed forces.

2/ Excludes armed forces.

3/ Persons of mixed race classified by self-indentification or race of mother. Data are not comparable either to earlier censuses or to such surveys as the Hawaii Health Surveillance Program. The latter survey reported that 20.0 percent of civilian workers in 1980 were of mixed race (14.2 percent Part Hawaiian and 5.8 percent non-Hawaiian); see Data Book 1982, table 263.

4/ Persons of Spanish origin can be of any race.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), tables 61, 87, and 95.

Table 334.-- ETHNIC STOCK OF EMPLOYED CIVILIANS, 16 YEARS OLD AND OVER, BY SEX, BY COUNTIES: 1983

[Employed based on usual activity; not comparable to employment data from the Hawaii State Department of Labor and Industrial Relations. Includes military dependents]

Sex and ethnic stock	State total	Honolulu	Hawaii	Kauai	Maui
Total	406,205	308,543	42,138	19,987	35,537
Male	217,390	162,531	23,559	11,410	19,889
Caucasian	51,889	37,260	5,795	2,314	6,520
Japanese	64,778	49,718	6,983	3,547	4,530
Chinese	12,551	11,928	326	89	207
Filipino	26,267	17,616	3,294	2,514	2,843
Hawaiian	2,116	1,381	368	37	330
Korean	2,388	2,313	-	17	57
Black	1,353	1,243	-	25	85
Puerto Rican	935	644	215	19	57
Samoan	1,781	1,719	50	-	11
Other unmixed 1/ ..	2,029	1,591	138	-	300
Part Hawaiian	35,553	25,258	5,010	1,905	3,380
Other mixed	15,751	11,860	1,380	942	1,569
Female	188,816	146,012	18,579	8,577	15,648
Caucasian	44,266	33,582	4,050	1,900	4,734
Japanese	61,420	48,673	6,264	2,788	3,695
Chinese	10,009	9,635	213	37	124
Filipino	22,202	15,905	1,648	1,828	2,822
Hawaiian	1,104	813	80	81	130
Korean	2,973	2,797	126	14	36
Black	1,576	1,466	82	27	-
Puerto Rican	616	434	167	14	-
Samoan	731	676	55	-	-
Other unmixed 1/ ..	1,258	980	80	43	154
Part Hawaiian	28,756	20,309	4,275	1,254	2,918
Other mixed	13,906	10,740	1,540	591	1,035

1/ Includes not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 335.-- CHARACTERISTICS OF THE INSURED UNEMPLOYED: NOVEMBER 1983

[All claimants]

Subject	Number	Subject	Number
Total	12,960	Age:	
		Under 22 years	903
Race:		22 to 24 years	1,210
White	3,862	25 to 34 years	4,697
Black	168	35 to 44 years	2,846
Indian	13	45 to 54 years	1,738
Hispanic	91	55 to 64 years	1,408
Hawaiian	1,140	65 years and over	158
Chinese/Korean	661		
Filipino	2,424	Duration:	
Japanese	2,009	1 to 4 weeks	3,283
Other	2,320	5 to 14 weeks	5,307
Unknown	272	15 weeks and over	4,370
Sex:		Occupation:	
Male	7,734	Professional, technical, managerial	2,036
Female	5,226	Clerical, sales	2,547
Industry:		Services	2,356
State government	725	Farm/fish/forestry	497
County government	96	Processing	467
Agriculture	454	Machine trades	297
Construction	3,061	Bench work	189
Manufacturing	1,162	Structural work	3,528
Food processing	654	Miscellaneous	1,032
Transportation, communication, utilities	862	Unknown	11
Wholesale/retail trades	2,642		
Finance, insurance, real estate	660		
Services	3,253		
Hotel	1,143		
Others and unknown	45		

Source: Hawaii State Department of Labor and Industrial Relations, Characteristics of the Insured Unemployed in Hawaii -- 1983, pp. 10 and 13.

Table 336.-- JOBCOUNT, BY COUNTIES: ANNUAL AVERAGES, 1973 TO 1983

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
1973	365,050	298,900	30,150	13,600	22,250
1974	374,650	306,350	31,000	13,600	23,650
1975	380,900	308,550	32,350	14,550	25,400
1976	387,000	312,100	33,000	15,250	26,600
1977	398,600	319,900	34,100	15,900	28,450
1978	417,500	334,400	35,400	16,650	30,950
1979	434,450	348,150	36,300	17,200	32,650
1980 1/ .	444,100	354,800	37,150	18,200	34,050
1981	445,050	353,650	38,000	18,150	35,350
1982 1/ .	440,500	347,850	37,800	18,050	36,850
1983	445,100	350,800	38,400	18,450	37,450

1/ Revised from Data Book 1983, table 294.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised.

Table 337.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1974 TO 1983

Industry	1974	1975	1976	1977	1978
Nonagriculture, wage and salary	335,900	342,800	349,200	359,400	377,300
Contract construction	27,900	26,350	21,400	19,750	20,650
Manufacturing	22,700	23,650	23,400	23,200	23,700
Durable goods	4,700	4,800	4,550	4,600	4,700
Nondurable goods	18,000	18,850	18,800	18,600	19,000
Food processing	10,050	11,250	11,300	11,250	11,700
Sugar	3,700	4,450	4,350	3,950	4,150
Pineapple	2,550	2,800	2,850	3,050	3,200
Other	3,850	4,000	4,050	4,250	4,300
Textile, apparel	3,750	3,400	3,300	3,250	3,250
Printing, publishing	2,700	2,650	2,700	2,750	2,850
Other nondurables	1,500	1,550	1,550	1,350	1,200
Transp., commun., utilities ..	26,300	26,400	27,100	28,200	28,800
Transportation	17,200	17,450	18,200	19,200	19,950
Communication	6,400	6,400	6,400	6,500	6,350
Utilities	2,700	2,600	2,500	2,500	2,500
Trade	82,150	83,750	87,900	92,200	97,900
Wholesale	15,650	15,850	16,050	16,600	17,200
Retail	66,500	67,900	71,800	75,550	80,700
Finance, insur., real estate .	24,000	24,250	24,700	25,650	28,850
Services and miscellaneous ...	73,950	76,400	79,900	84,750	90,300
Hotels	19,450	19,950	20,900	22,100	22,850
Other services, misc.	54,500	56,500	59,000	62,650	67,450
Government	78,900	82,000	84,800	85,700	87,050
Federal	31,000	30,550	29,850	29,300	29,350
Air Force	3,300	3,300	3,200	3,050	2,850
Army	5,700	5,300	4,950	4,750	4,500
Navy	11,200	11,100	11,050	11,200	11,750
Other	10,800	10,850	10,600	10,250	10,250
State	35,950	38,700	41,350	42,650	43,350
Local	11,950	12,750	13,600	13,800	14,350
Agriculture, wage and salary ...	10,200	11,050	11,050	11,300	11,550
Sugar	4,450	5,200	5,050	5,000	4,900
Pineapple	2,300	2,300	2,200	2,400	2,550
Other	3,400	3,550	3,800	3,900	4,100
Nonagric., self-employed 2/	21,650	22,050	22,050	23,000	23,800
Agric., self-employed 3/	4,700	4,800	4,450	4,400	4,700
Labor disputes	2,200	200	250	500	150

Continued on next page.

Table 337.-- JOBCOUNT, BY INDUSTRY: ANNUAL AVERAGES, 1973 TO 1983 -- Con.

Industry	1979	1980	1981	1982 1/	1983
Nonagriculture, wage and salary	394,000	404,100	404,800	399,400	403,050
Contract construction	23,400	23,950	21,900	17,850	17,950
Manufacturing	23,900	23,350	23,000	22,400	22,200
Durable goods	4,800	4,700	4,250	3,900	3,650
Nondurable goods	19,100	18,650	18,750	18,550	18,600
Food processing	11,600	11,150	11,150	11,150	11,150
Sugar	3,950	3,900	3,950	3,850	3,750
Pineapple	3,200	2,900	2,800	2,750	2,550
Other	4,400	4,350	4,350	4,550	4,800
Textile, apparel	3,300	3,050	2,950	2,850	2,900
Printing, publishing	2,950	3,100	3,150	3,150	3,150
Other nondurables	1,250	1,350	1,500	1,400	1,400
Transp., commun., utilities ..	30,500	31,200	31,900	31,200	30,700
Transportation	21,200	21,500	21,900	21,150	20,800
Communication	6,750	7,150	7,400	7,500	7,500
Utilities	2,500	2,550	2,600	2,550	2,450
Trade	102,900	105,250	105,450	104,850	105,750
Wholesale	18,300	18,600	18,700	18,500	18,150
Retail	84,650	86,700	86,750	86,300	87,600
Finance, insur., real estate .	31,500	32,850	31,700	31,500	31,600
Services and miscellaneous ...	95,350	98,450	101,900	101,200	103,800
Hotels	24,100	24,900	24,800	26,500	26,800
Other services, misc.	71,250	73,550	77,100	74,700	77,050
Government	86,500	89,050	89,000	90,300	91,050
Federal	29,700	30,000	30,350	31,500	32,100
Air Force	2,750	2,650	2,600	2,650	2,650
Army	4,250	4,100	4,300	4,650	4,850
Navy	11,850	11,950	12,500	13,100	13,350
Other	10,800	11,250	10,900	11,100	11,250
State	43,300	45,150	45,250	45,650	45,650
Local	13,500	13,900	13,350	13,150	13,300
Agriculture, wage and salary ...	10,850	10,650	11,550	11,300	11,200
Sugar	5,000	4,950	5,200	4,700	4,500
Pineapple	2,550	2,500	2,450	2,450	2,300
Other	3,300	3,200	3,950	4,150	4,400
Nonagric., self-employed 2/	24,350	24,350	24,300	25,750	26,800
Agric., self-employed 3/	4,550	4,500	4,350	3,950	3,900
Labor disputes	700	500	50	100	150

Footnotes and source follow next table.

Table 338.-- JOBCOUNT BY INDUSTRY, BY COUNTIES: ANNUAL AVERAGE, 1983

Industry	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Nonagriculture, wage and salary	403,050	327,950	29,150	15,500	30,450
Contract construction	17,950	14,700	1,300	800	1,150
Manufacturing	22,200	16,350	2,600	1,300	2,000
Durable goods	3,650	3,300	100	(Z)	200
Nondurable goods	18,600	13,050	2,500	1,250	1,800
Food processing	11,150	6,250	2,150	1,150	1,600
Textile, apparel	2,900	2,800	(NS)	(NS)	(NS)
Printing, publishing	3,150	2,800	(NS)	(NS)	(NS)
Other nondurables	1,400	1,200	(NS)	(NS)	(NS)
Transp., commun., utilities	30,700	25,500	1,800	1,600	1,850
Transportation	20,800	17,950	(NS)	(NS)	(NS)
Communication	7,500	5,850	(NS)	(NS)	(NS)
Utilities	2,450	1,700	(NS)	(NS)	(NS)
Trade	105,750	85,700	7,750	4,000	8,300
Wholesale	18,150	15,750	1,350	350	700
Retail	87,600	69,950	6,450	3,650	7,550
Finance, insur., real estate	31,600	27,200	1,300	800	2,250
Services and miscellaneous	103,800	81,400	7,750	4,250	10,450
Hotels	26,800	14,850	3,550	2,200	6,200
Other services, misc.	77,050	66,550	4,200	2,050	4,250
Government	91,050	77,200	6,650	2,750	4,400
Federal	32,100	31,000	600	200	300
Air Force	2,650	2,550	(NS)	(NS)	(NS)
Army	4,850	4,800	(NS)	(NS)	(NS)
Navy	13,350	13,300	(NS)	(NS)	(NS)
Other	11,250	10,350	(NS)	(NS)	(NS)
State	45,650	36,700	4,300	1,700	2,900
Local	13,300	9,450	1,750	850	1,200
Agriculture, wage and salary	11,200	2,650	3,800	1,400	3,350
Sugar	4,500	600	1,400	1,250	1,250
Pineapple	2,300	950	-	-	1,350
Other	4,400	1,100	2,400	150	750
Nonagric., self-employed 2/	26,800	19,300	2,900	1,350	3,300
Agric., self-employed 3/	3,900	750	2,550	200	350
Labor disputes	150	150	(Z)	-	-

Z Fewer than 50.
NS Not shown separately.
1/ Revised from Data Book 1983, table 295.
2/ Includes unpaid family workers and domestics.
3/ Includes unpaid family workers.

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised annually through April 1984.

Table 339.-- LABOR FORCE AND JOB PROJECTIONS: 1980 TO 2005

[Thousands. Annual averages. Series M-F projections, recommended by DPED for State planning purposes]

Subject	1980 (est.)	1985	1990	1995	2000	2005
Civilian labor force 1/ (1,000)	439.0	488.4	533.4	575.6	607.9	627.7
Persons employed 1/	417.0	461.5	503.9	544.2	574.7	593.7
Total jobs (1,000)	499.5	529.0	572.3	613.4	644.5	663.9
Armed forces	58.4	58.4	58.4	58.4	58.4	58.4
Civilian jobs 1/	441.1	470.6	513.8	554.9	586.1	605.4
Self-employed	28.9	32.0	34.9	37.7	39.8	41.1
Wage and salary jobs by sector	412.2	438.6	478.9	517.3	546.3	564.3
Agriculture	11.5	11.0	11.1	10.6	10.2	9.8
Food processing	11.5	11.1	11.0	10.8	10.5	10.3
Miscellaneous manufacturing	12.2	11.7	12.1	12.6	12.9	13.1
Construction	24.1	21.2	23.4	25.8	27.7	28.9
Transportation, communication, and utilities	30.9	32.1	35.5	38.3	40.2	40.6
Trade (exc. eating & drinking)	71.0	76.3	85.6	94.9	102.1	108.2
Eating and drinking places	34.5	39.1	43.6	47.8	50.6	51.9
Finance, insurance, and real estate	31.1	33.7	36.8	39.7	41.9	43.5
Hotels	24.8	28.3	31.8	35.0	36.9	37.1
Other services	71.7	79.9	88.4	96.8	103.5	108.0
State and local government	59.0	62.0	66.6	71.1	74.6	77.4
Federal government 1/	30.0	32.3	33.1	33.9	34.7	35.4

1/ Includes civilian employees of the armed forces.

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 14.

Table 340.-- INDUSTRY: 1980 AND 1970

Industry	1980	1970
Employed persons 16 years and over	415,181	285,556
Agriculture, forestry, and fisheries	14,560	13,161
Mining	233	322
Construction	29,888	26,637
Manufacturing	32,914	31,188
Nondurable goods	21,234	21,173
Durable goods	11,680	10,015
Transportation, communications, and other public utilities	36,478	26,403
Wholesale and retail trade	98,542	61,044
Finance, insurance, and real estate	31,648	14,356
Business and repair services	17,832	8,978
Personal services	31,288	20,301
Entertainment and recreation services	6,862	3,756
Professional and related services	73,363	48,310
Public administration	41,573	31,100

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 341.-- CLASS OF WORKER: 1940 TO 1980

Class of worker	Persons 14 years old and over			Persons 16 years old and over	
	1940	1950	1960	1970	1980
All employed civilians	153,796	167,571	209,370	285,556	415,181
Private wage and salary workers	113,551	111,036	144,602	200,912	300,315
Government workers	18,553	34,400	46,078	70,547	90,401
Self-employed workers	15,967	19,192	17,009	12,832	22,965
Unpaid family workers	5,725	2,943	1,681	1,265	1,500

Source: U.S. Bureau of the Census, U.S. Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (February 1962), table 56; 1970 Census of Population, General Social and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 56; 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 67.

Table 342.-- CLASS OF WORKER AND INDUSTRY, BY COUNTIES: 1980

Subject	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
CLASS OF WORKER						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Private wage and salary workers	300,315	27,226	231,719	24	13,885	27,461
Federal Government workers	32,244	909	30,207	3	508	617
State Government workers	43,814	4,945	34,268	48	1,715	2,838
Local Government workers	14,343	1,481	10,583	-	1,002	1,277
Self-employed workers	22,965	3,310	16,312	7	1,035	2,301
Unpaid family workers	1,500	279	1,024	-	78	119
INDUSTRY						
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Agriculture, forestry, fisheries, and mining	14,793	4,272	5,662	1	1,762	3,096
Construction	29,888	3,477	21,423	-	1,621	3,367
Manufacturing	32,914	3,177	24,982	8	1,548	3,199
Nondurable goods	21,234	2,539	14,713	3	1,354	2,625
Durable goods	11,680	638	10,269	5	194	574
Transportation	25,392	1,524	21,174	2	1,015	1,677
Communications and other public utilities	11,086	812	8,771	-	668	835
Wholesale trade	16,089	1,477	13,286	7	462	857
Retail trade	82,453	6,683	66,358	4	3,089	6,319
Finance, insurance, and real estate	31,648	2,174	26,145	-	1,074	2,255
Business and repair services	17,832	1,251	14,726	-	527	1,328
Personal, entertainment, and recreation services	38,150	4,154	26,252	7	2,317	5,420
Professional and related services	73,363	6,378	59,927	6	2,713	4,339
Health services	22,390	1,700	18,429	4	873	1,384
Educational services	31,989	3,090	26,113	-	1,099	1,687
Other professional and related services	18,984	1,588	15,385	2	741	1,268
Public administration	41,573	2,771	35,407	47	1,427	1,921

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 67, 69, 176, and 178.

Table 343.-- OCCUPATION, BY SEX: 1980 AND 1970

Occupation	Both sexes		Females only	
	1980	1970	1980	1970
Employed persons 16 years and over ...	415,181	285,556	189,850	116,616
Managerial and professional specialty occupations	97,606	58,242	42,212	22,565
Executive, administrative, and managerial occupations	48,671	25,048	16,900	6,129
Professional specialty occupations	48,935	33,194	25,312	16,436
Technical, sales, and administrative support occupations	132,651	83,698	89,078	53,113
Technicians and related support occupation	11,982	7,442	4,501	2,027
Sales occupations	47,475	28,227	27,465	15,571
Administrative support occupations, including clerical	73,194	48,029	57,112	35,515
Service occupations	74,149	44,024	41,691	26,766
Private household occupations	1,547	2,131	1,376	2,024
Protective service occupations	7,578	4,304	855	143
Service occupations, except protective and household	65,024	37,589	39,460	24,599
Farming, forestry, and fishing occupations	14,154	12,572	2,785	2,118
Precision production, craft, and repair occupations	48,198	43,484	3,941	2,731
Operators, fabricators, and laborers	48,423	43,536	10,143	9,323
Machine operators, assemblers, and inspectors	14,000	13,589	5,730	5,743
Transportation and material moving occupations	16,430	13,767	1,132	472
Handlers, equipment cleaners, helpers, and laborers	17,993	16,180	3,281	3,108

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61.

Table 344.-- OCCUPATION, BY COUNTIES: 1980

Occupation	The State	Counties				
		Hawaii	Honolulu	Kala-wao	Kauai	Maui
Employed persons 16 years and over	415,181	38,150	324,113	82	18,223	34,613
Managerial and professional specialty occupations	97,606	7,648	79,934	15	3,499	6,510
Executive, administrative, and managerial occupations	48,671	3,518	39,971	7	1,545	3,630
Professional specialty occupations	48,935	4,130	39,963	8	1,954	2,880
Technical, sales, and administrative support occupations	132,651	9,956	109,521	15	4,554	8,605
Technicians and related support occupations	11,982	864	9,915	-	614	589
Sales occupations	47,475	3,996	38,367	1	1,683	3,428
Administrative support occupations, including clerical	73,194	5,096	61,239	14	2,257	4,588
Service occupations	74,149	6,283	56,939	17	3,742	7,168
Private household occupations	1,547	134	1,116	-	135	162
Protective service occupations	7,578	609	6,010	2	388	569
Service occupations, except protective and household	65,024	5,540	49,813	15	3,219	6,437
Farming, forestry, and fishing occupations	14,154	3,927	5,838	8	1,509	2,872
Precision production, craft, and repair occupations	48,198	4,848	36,546	20	2,345	4,439
Operators, fabricators, and laborers	48,423	5,488	35,335	7	2,574	5,019
Machine operators, assemblers, and inspectors	14,000	1,308	10,887	5	518	1,282
Transportation and material moving occupations	16,430	2,123	11,274	-	1,054	1,979
Handlers, equipment cleaners, helpers, and laborers	17,993	2,057	13,174	2	1,002	1,758

Source: U.S. Bureau of the Census, *1980 Census of Population, General Social and Economic Characteristics, Hawaii*, PC80-1-C13 (June 1983), tables 68 and 177.

Table 345.-- INDUSTRY: 1983

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 6,366 employed civilians]

Industry	Both sexes	Males	Females
Civilian workers, 16 years old and over ..	406,205	217,390	188,816
Agriculture	20,351	15,360	4,990
Construction and mining	22,536	20,819	1,717
Manufacturing	18,065	11,426	6,639
Transportation, communication, utilities	32,254	22,686	9,569
Wholesale and retail trade	92,528	41,620	50,908
Finance, insurance and real estate	31,808	12,756	19,052
Services	135,292	57,442	77,850
Public administration, except armed forces	51,577	34,554	17,023
Not reported	1,795	727	1,068

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 346.-- OCCUPATION, BY SEX: 1983

[Excludes persons in institutions or military barracks, or on Niihau. Based on a sample survey of 6,366 employed civilians]

Occupation (1980 census classification)	Both sexes	Male	Female
Employed civilians, 16 years and over	406,205	217,390	188,816
Managerial and professional specialty	96,816	54,019	42,797
Technical, sales, and administrative support ...	134,281	42,722	91,559
Service	70,568	29,908	40,660
Farming, forestry, and fishing	17,223	13,122	4,101
Precision production, craft, and repair	47,170	44,531	2,638
Operators, fabricators, and laborers	37,322	31,433	5,889
Occupation not reported	2,825	1,654	1,170

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 347.-- PERSONS 16 YEARS AND OVER IN SELECTED OCCUPATIONS, BY SEX AND ETHNIC STOCK: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 6,366 civilian workers 16 years old and over]

Ethnic stock 1/	Male			Female		
	Employed civilians (1,000)	Percent 2/		Employed civilians (1,000)	Percent 2/	
		Mgrs., prof. 3/	Oper., labor 4/		Mgrs., prof. 3/	Oper., labor 4/
All groups ..	217.4	25.0	14.6	188.8	22.8	3.1
Unmixed:						
Caucasian	51.9	38.8	7.9	44.3	33.1	1.5
Japanese	64.8	27.0	10.4	61.4	24.0	2.3
Chinese	12.6	46.0	6.4	10.0	30.8	2.2
Filipino	26.3	4.2	22.7	22.2	8.7	7.8
Hawaiian	2.1	(B)	(B)	1.0	(B)	(B)
Korean	2.4	(B)	(B)	3.0	(B)	(B)
Black	1.4	(B)	(B)	1.6	(B)	(B)
Puerto Rican ...	0.9	(B)	(B)	0.6	(B)	(B)
Samoan	1.8	(B)	(B)	0.7	(B)	(B)
Other unmixed 5/	2.0	(B)	(B)	1.3	(B)	(B)
Mixed:						
Part Hawaiian ..	35.6	13.2	23.8	28.8	15.8	4.4
Non Hawaiian ...	15.8	20.3	20.3	13.9	20.8	0.7

(B) Base figure too small for calculation of reliable percentage.

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

2/ Based on number reporting occupation.

3/ Managerial and professional specialty occupations.

4/ Operators, fabricators, and laborers.

5/ Includes persons not reporting ethnic stock.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 348.-- PLACE OF WORK OF ALL PERSONS AND NONRESIDENTS WORKING IN HAWAII DURING PRECEDING WEEK: 1980

[Place of residence as of April 1, 1980; place of work as of last week in March 1980]

Subject	Working in area	
	Total	Living outside 1/
State total	412,307	1,716
Sex:		
Male	239,569	1,324
Female	172,738	392
Military status:		
Armed forces	41,752	194
Civilians	370,555	1,522
County of employment:		
Hawaii	33,656	1,146
Honolulu	329,255	2,399
Kalawao	118	41
Kauai	17,841	1,552
Maui	31,437	972

1/ State total and distributions by sex and military status refer to Mainland residents (as of April 1, 1980) employed in Hawaii during the preceding week; county data also include residents of other counties in Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, PC80-2-6E, Place of Work (June 1984), pp. 176-177.

Table 349.-- PLACE OF WORK OF HAWAII RESIDENTS IN PRECEDING WEEK, BY MILITARY STATUS AND COUNTY OF RESIDENCE: 1980

Subject	Workers 16 years and over	Worked in county of residence	Worked elsewhere in State	Worked outside of State 1/	Place of work not reported
Total	457,185	406,197	4,394	9,292	37,302
Military status:					
Armed forces	57,480	41,558		8,253	7,669
Civilian workers	399,705	369,033		1,039	29,633
County of residence:					
City and Co. of Honolulu	368,253	326,856	1,680	9,182	30,535
Other counties	88,932	79,341	2,714	110	6,767

1/ Out of 9,292 Hawaii residents reporting an out-of-State place of work during the previous week, 6,378 were enumerated aboard vessels anchored in census tract 74.99 at Pearl Harbor.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 174; 1980 Census of Population, Detailed Population Characteristics, Hawaii, PC80-1-D13 (October 1983), table 233; 1980 Census of Population and Housing, Census Tracts, Hawaii, Selected Areas, PHC80-2-13 (June 1983), table P-9; and 1980 Census of Population and Housing, Census Tracts, Honolulu, Hawaii SMSA, PHC80-2-183 (June 1983), table P-9.

Table 350.-- PLACE OF WORK IN PRECEDING WEEK, BY COUNTY OF RESIDENCE: 1980

County of residence and place of work 1/	Workers 16 years and over
Hawaii County residents	36,857
Hawaii County	32,510
Hilo CDP	14,629
Remainder of County	17,881
Maui County	72
Kalawao County	41
City and County of Honolulu	528
Honolulu CDP	274
Remainder of Oahu	254
Kauai County	982
Worked elsewhere	80
Place of work not reported	2,644
Maui County residents	33,872
Maui County	30,465
Kahului CDP	7,025
Kihei	2,252
Wailuku CDP	5,081
Lahaina CDP	5,705
Remainder of County	10,402
Hawaii County	78
Kalawao County	-
City and County of Honolulu	323
Honolulu CDP	231
Remainder of Oahu	92
Kauai County	15
Worked elsewhere	30
Place of work not reported	2,961
Kalawao County residents	86
Kalawao County	77
Place of work not reported	9

Continued on next page.

Table 350.-- PLACE OF WORK IN PRECEDING WEEK, BY COUNTY OF RESIDENCE: 1980 -- Con.

County of residence and place of work 1/	Workers 16 years and over
City and County of Honolulu residents	368,253
City and County of Honolulu	326,856
Honolulu CDP	228,715
Central business district	26,633
Remainder of CDP	202,082
Other urban places, by districts	69,121
Ewa	24,157
Wahiawa	18,470
Waianae	3,901
Waialua	1,888
Koolaupoko	20,705
Remainder of Oahu	29,020
Remainder of State	1,680
Worked elsewhere	9,182
Place of work not reported	30,535
Kauai County residents	18,117
Kauai County	16,289
Lihue CDP	6,179
Remainder of County	10,110
Hawaii County	390
Maui County	18
Kalawao County	-
City and County of Honolulu	267
Honolulu CDP	55
Remainder of Oahu	212
Worked elsewhere	-
Place of work not reported	1,153

1/ CDP refers to census designated places.

Source: U.S. Bureau of the Census, _Census of Population and Housing 1980: Summary Tape File 4 Technical Documentation Supplement 1 -- Tabulation PB34, Place of Work_, prepared by the Data User Services Division (1983).

Table 351.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES: 1973 TO 1983

Year	Number of employers, December	Average employment	Wages and salaries	
			Total ($1,000)	Per worker (dollars)
INCLUDING GOVERNMENT				
1973	15,346	336,026	2,849,172	8,479
1974	15,914	342,683	3,114,073	9,087
1975	16,558	349,887	3,417,570	9,767
1976	17,130	356,217	3,685,818	10,347
1977	17,831	366,555	3,996,746	10,903
1978	18,847	383,451	4,459,594	11,630
1979	19,639	400,963	4,983,844	12,429
1980	19,988	412,281	5,585,489	13,548
1981	20,190	414,830	6,002,943	14,471
1982	20,259	408,791	6,281,953	15,367
1983	20,937	413,767	6,668,001	16,115
EXCLUDING GOVERNMENT				
1978	18,841	296,454	3,202,300	10,802
1979	19,633	314,447	3,689,161	11,732
1980	19,982	323,307	4,105,082	12,697
1981	20,184	325,897	4,423,850	13,574
1982	20,253	320,885	4,563,866	14,223
1983	20,931	325,650	4,848,497	14,889
NON-AGRICULTURAL				
1977	17,267	269,554	2,706,712	10,041
1978	18,431	285,313	3,083,421	10,807
1979	19,213	303,305	3,551,436	11,709
1980	19,597	311,808	3,956,617	12,689
1981	19,799	314,016	4,261,467	13,571
1982	19,876	309,531	4,412,058	14,254
1983	20,515	314,142	4,679,895	14,897

Source: Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual) and records.

Table 352.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY COUNTIES OR ISLANDS 1983

County or island	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
INCLUDING GOVERNMENT				
State total	20,937	413,767	6,668,001	16,115
Oahu	15,963	331,193	5,486,563	16,566
Hawaii County	2,139	32,370	465,575	14,383
Maui County	1,865	33,473	472,437	14,114
Kauai County	976	16,730	243,426	14,550
EXCLUDING GOVERNMENT				
State total	20,931	325,650	4,848,497	14,889
Oahu	15,960	256,946	3,930,826	15,298
Hawaii County	2,136	25,664	338,946	13,207
Maui County	1,862	29,033	388,215	13,372
Kauai County	973	14,007	190,509	13,601

Source: Hawaii State Department of Labor and Industrial Relations, 1983 Employment and Payrolls in Hawaii (September 1984).

Table 353.-- EMPLOYMENT AND PAYROLLS COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, BY INDUSTRY: 1983

Industry	Number of employers, Dec.	Average employment	Total wages ($1,000)	Average annual wage (dollars)
All industries	20,937	413,767	6,668,001	16,115
Government	6	88,117	1,819,505	20,649
Federal	1	33,018	808,726	24,493
State	1	41,778	757,465	18,131
County	4	13,322	253,313	19,015
Private	20,931	325,650	4,848,497	14,889
Agriculture, forestry, fisheries	416	11,508	168,601	14,651
Sugar	15	4,603	81,352	17,674
Pineapple	5	2,161	31,323	14,495
Other	396	4,744	55,926	11,789
Mining and contract construction	1,639	18,027	458,213	25,418
Manufacturing	819	22,446	373,050	16,620
Sugar mills	13	3,517	69,140	19,659
Pineapple canning	2	2,780	34,491	12,407
Other food processing	198	4,871	71,668	14,713
Other manufacturing	606	11,278	197,752	17,534
Transportation	860	20,489	394,972	19,277
Communications	94	7,525	183,925	24,442
Utilities	39	2,438	69,821	28,638
Wholesale trade: Durable	856	8,752	178,514	20,397
Non-durable	939	9,663	152,333	15,765
Retail trade	4,660	88,626	865,393	9,765
Eating and drinking places	1,529	35,764	252,090	7,049
Other retail trade	3,131	52,862	613,303	11,602
Finance, insurance, real estate	2,960	32,159	533,321	16,584
Services	7,554	103,794	1,467,118	14,135
Hotels, rooming houses, etc.	189	26,888	329,267	12,246
Medical and other health services	1,680	20,721	401,764	19,389
Other services	5,685	56,185	736,088	13,101
Nonclassifiable establishments	95	226	3,237	14,323

Source: Hawaii State Department of Labor and Industrial Relations, 1983 Employment and Payrolls in Hawaii (September 1984).

Table 354.-- AVERAGE ANNUAL WAGE FOR EMPLOYEES COVERED BY THE HAWAII EMPLOYMENT SECURITY LAW AND UNEMPLOYMENT COMPENSATION FOR FEDERAL EMPLOYEES, IN CURRENT AND CONSTANT DOLLARS, BY CLASS OF WORKER: 1973 AND 1983

Class of worker	1973: current dollars	1983		Percent change, 1973-1983	
		Current dollars	1973 dollars 1/	Current dollars	1973 dollars 1/
All classes ..	8,479	16,115	7,559	90.1	-10.9
Federal	12,016	24,493	11,488	103.8	-4.4
State 2/	9,292	18,131	8,504	95.1	-8.5
County	10,156	19,015	8,919	87.2	-12.2
Private	7,861	14,889	6,984	89.4	-11.2

1/ Deflated by the all-items consumer price index for Honolulu. The all-items index increased 113.2 percent during this period.

2/ Average for 1973 is overstated because of erroneous inclusion of uncovered student workers, omitte[illegible] 1983 data.

Source: Hawaii State Depar[illegible] of Labor and Industrial Relations, Employment and Payrolls in Hawai[illegible]nual).

Table 355.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1972 TO 1983

Subject	1972	1973	1974	1975	1976	1977
Average weekly earnings (dollars)						
Contract construction	243.54	257.04	274.78	296.00	318.56	352.36
Manufacturing	141.81	156.81	167.06	182.99	200.46	209.38
Food and kindred products ..	127.83	142.21	157.87	172.00	189.12	188.33
Communication and utilities ..	192.29	211.25	227.98	262.88	288.58	311.28
Trade 2/	104.94	113.90	120.96	129.03	138.60	147.74
Wholesale trade	144.78	156.11	169.22	181.06	196.60	207.59
Retail trade 2/	91.40	99.84	104.62	111.16	119.25	128.93
Finance 3/	118.88	118.40	128.20	148.13	164.10	164.11
Hotels	80.35	88.13	95.99	104.65	128.61	137.38
Laundries	77.85	83.77	89.11	96.17	105.95	110.66
Average weekly hours						
Contract construction	37.7	37.8	37.9	37.9	36.2	35.7
Manufacturing	39.5	39.9	39.4	39.1	39.0	38.0
Food and kindred products ..	39.7	40.4	40.9	40.0	39.4	38.2
Communication and utilities ..	41.0	41.1	41.3	42.4	42.5	42.7
Trade 2/	33.0	33.5	33.6	33.0	33.0	33.2
Wholesale trade	38.0	37.8	38.9	37.8	38.1	38.3
Retail trade 2/	31.3	32.0	31.8	31.4	31.3	31.6
Finance 3/	...	...	...	...	...	...
Hotels	27.9	28.8	29.0	29.9	31.6	31.8
Laundries	34.6	35.8	35.5	35.1	35.2	34.8
Average hourly earnings (dollars)						
Contract construction	6.46	6.80	7.25	7.81	8.80	9.87
Manufacturing	3.59	3.93	4.24	4.68	5.14	5.51
Food and kindred products ..	3.22	3.52	3.86	4.30	4.80	4.93
Communication and utilities ..	4.69	5.14	5.52	6.20	6.79	7.29
Trade 2/	3.18	3.40	3.60	3.91	4.20	4.45
Wholesale trade	3.81	4.13	4.35	4.79	5.16	5.42
Retail trade 2/	2.92	3.12	3.29	3.54	3.81	4.08
Finance 3/	...	...	...	...	...	...
Hotels	2.88	3.06	3.31	3.50	4.07	4.32
Laundries	2.25	2.34	2.51	2.74	3.01	3.18

Continued on next page.

Table 355.-- HOURS AND EARNINGS IN SPECIFIED INDUSTRIES: ANNUAL AVERAGES, 1972 TO 1983 -- Con.

Subject	1978	1979	1980	1981	1982 1/	1983
Average weekly earnings (dollars)						
Contract construction	385.40	397.80	428.97	475.31	519.10	587.76
Manufacturing	227.74	244.35	258.17	289.90	301.68	317.68
Food and kindred products ..	204.72	217.74	238.26	274.31	281.86	291.65
Communication and utilities ..	352.54	378.35	421.16	433.70	486.41	486.22
Trade 2/	158.07	173.01	184.82	198.99	213.81	225.12
Wholesale trade	219.84	238.23	252.50	275.88	290.67	302.13
Retail trade 2/	138.47	151.69	162.30	174.27	189.21	199.69
Finance 3/..................	166.48	174.83	185.58	212.64	222.49	237.73
Hotels	155.20	166.52	173.72	193.64	208.98	222.95
Laundries	129.60	144.77	151.25	161.55	...	...
Average weekly hours						
Contract construction	36.6	36.0	36.2	36.2	35.8	37.2
Manufacturing	38.6	38.3	37.8	38.5	37.9	38.6
Food and kindred products ..	38.7	38.0	37.7	39.3	38.4	39.2
Communication and utilities ..	44.4	44.2	44.9	43.5	43.9	41.7
Trade 2/	33.0	33.4	33.3	33.0	33.2	33.4
Wholesale trade	38.3	38.3	38.2	38.0	37.7	38.1
Retail trade 2/	31.4	31.8	31.7	31.4	31.8	31.9
Finance 3/	...	...	...	...	...	...
Hotels	32.4	31.9	31.3	32.6	32.5	32.5
Laundries	36.1	37.8	36.8	36.8	...	...
Average hourly earnings (dollars)						
Contract construction	10.53	11.05	11.85	13.13	14.50	15.80
Manufacturing	5.90	6.38	6.83	7.53	7.96	8.23
Food and kindred products ..	5.29	5.73	6.32	6.98	7.34	7.44
Communication and utilities ..	7.94	8.56	9.38	9.97	11.08	11.66
Trade 2/	4.79	5.18	5.55	6.03	6.44	6.74
Wholesale trade	5.74	6.22	6.61	7.26	7.71	7.93
Retail trade 2/	4.41	4.77	5.12	5.55	5.95	6.26
Finance 3/	...	...	...	...	...	...
Hotels	4.79	5.22	5.55	5.94	6.43	6.86
Laundries	3.59	3.83	4.11	4.39	...	...

1/ Revised from Data Book 1983, table 308.
2/ Excludes eating and drinking establishments.
3/ Designated "Banking and credit agencies" effective 1982.
Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), as revised April 1984.

Table 356.-- ANNUAL BASE SALARY RANGES FOR SELECTED HOTEL AND RESORT CONDOMINIUM EXECUTIVE POSITIONS: 1984

[In dollars. Detailed information regarding annual base salaries for 18 hotel executive positions analyzed by hotel location, size, and average daily room rate; annual base salaries for seven resort condominium executive positions analyzed by size and average daily room rate; and fringe benefits for the aforementioned executive positions is also available. The median, mean, standard deviation and range are delineated for each position and classification]

Position	Hotel		Condominium	
	High	Low	High	Low
General manager	90,000	24,000	35,000	18,000
Executive assistant manager ...	48,000	16,000	26,000	14,000
Resident manager	60,000	21,000	26,000	14,000
Front office manager	36,000	16,000	22,000	14,000
Reservations manager	28,000	16,000	18,000	10,000
Executive housekeeper	38,000	16,000	26,000	13,000
Chief engineer	48,000	16,000	24,000	18,000

Source: Pannel Kerr Forster, 1984 Hawaii Hotel and Resort Condominium Executive Compensation Survey Report (1984).

Table 357.-- AVERAGE PAY RATES FOR SELECTED JOB CLASSIFICATIONS IN PRIVATE INDUSTRY: 1978 AND 1983

[In dollars]

Job classification	State average		Islands: 1983			
	1978	1983	Kauai	Oahu	Maui	Hawaii
MONTHLY RATES						
Junior typist	658	975	1,100	970	...	...
Clerk-stenographer	809	1,250	...	1,239	...	...
Secretary	884	1,256	1,222	1,256	1,311	1,206
Data entry operator	788	1,072	1,199	1,064	1,217	1,119
Bookkeeper, full-charge	1,029	1,580	...	1,556	1,778	...
Engineering drafting technician	1,171	1,804	...	1,813	...	1,863
Hospital attendant	674	1,018	1,013	1,026	1,046	927
Staff nurse	1,141	1,875	1,853	1,875	1,907	...
HOURLY RATES						
Housekeeper	3.876	5.580	5.280	5.653	5.584	5.246
Cook, general	5.793	8.048	8.354	7.853	8.691	7.913
Waiter/waitress	2.670	3.483	3.450	3.469	3.589	3.450
Laborer (light)	4.719	6.506	6.676	6.546	6.473	6.310
Carpenter (maintenance)	6.588	9.362	9.388	9.483	9.256	8.915
Electrician (maintenance) ...	7.539	10.745	9.035	11.448	9.731	10.618
Automotive mechanic	7.090	9.697	9.313	10.249	9.193	9.370
Truck driver (1 1/2-5 tons) .	5.521	8.288	8.330	8.694	7.400	7.816

Source: Hawaii Employers Council, Pay Rates in Hawaii (annual).

Table 358.-- MINIMUM WAGE CHRONOLOGY: 1970 TO 1984

[Dollars per hour]

Effective date	Minimum wage
1970: July 1 1/	1.60
1974: July 1	2.00
1975: July 1	2.40
1978: July 1	2.65
1979: July 1	2.90
1980: July 1	3.10
1981: July 1 2/	3.35

1/ For earlier years, see Data Book 1983, table 310.
2/ Currently in effect as of July 1, 1984.
Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 359.-- LABOR TURNOVER RATES IN MANUFACTURING: 1976 TO 1981

[Turnover per 100 wage and salary employees. Excludes pineapple canning. This survey was discontinued after 1981]

Year	Accessions			Separations		
	Total	New hires	Re-calls	Total	Quits	Layoffs
1976	2.4	1.3	0.6	2.5	0.8	1.0
1977	2.5	1.5	0.6	2.4	0.9	0.7
1978	2.9	1.4	1.2	2.9	1.0	1.3
1979	3.2	1.8	1.0	3.4	1.2	1.4
1980	2.9	1.6	1.0	3.3	1.1	1.6
1981	2.3	1.2	0.8	2.5	0.7	1.2

Source: Hawaii State Department of Labor and Industrial Relations, Labor Force Data Book (March 1978), pp. 95-96, as revised May 1982.

Table 360.-- INTERSTATE MOVEMENT OF JOB-SEEKERS: 1974 TO 1983

Calendar year	Island workers on the Mainland 1/		Mainland workers in Hawaii 2/		Ratio 3/
	Total 4/	Regular only	Total 4/	Regular only	
1974	5,924	5,924	7,284	6,988	118
1975	9,425	7,607	9,478	8,785	115
1976	9,934	7,458	8,994	8,334	112
1977	7,090	5,846	8,846	8,154	139
1978	4,495	4,313	6,533	6,261	145
1979 5/	4,272	4,272	5,285	5,250	123
1980	5,633	5,211	5,196	4,956	95
1981	5,619	5,485	4,552	4,396	80
1982	5,372	5,372	5,259	4,848	90
1983	4,414	4,414	4,891	4,659	106

1/ Interstate liable initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Hawaii workers seeking work and filing for benefits on the Mainland. Since July 1980, data have included Federal civilian employees and ex-servicemen.

2/ Interstate agent initial claims (UI and Supp.), excluding UCFE and Supp. and UCX. Covers Mainland workers filing claims for unemployment insurance and registered for work with the Hawaii State Employment Service.

3/ Interstate agent initial claims (regular only) as a percent of inter-state liable initial claims (regular only). Ratios under 100 suggest a net out-migration of workers.

4/ Regular and extended claims.

5/ The method of counting liable and agent initial claims was revised effective October 1979. Data for 1979 and later years are accordingly not directly comparable with figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Unemployment Insurance Fact Book (August 1984), p. 27 and p. 48; and records.

Table 361.-- DISABILITY STATUS OF NONINSTITUTIONAL PERSONS, BY COUNTIES: 1980

Subject	State total 1/	Counties			
		Hawaii	Honolulu	Kauai	Maui
WORK DISABILITY STATUS					
Male, 16 to 64 years	330,805	28,928	266,837	12,166	22,810
With a work disability	21,163	2,476	16,290	738	1,642
Not in labor force	9,751	1,274	7,496	273	698
Prevented from working .	7,905	1,026	6,032	240	603
Female, 16 to 64 years	314,188	28,811	250,672	12,025	22,637
With a work disability	17,018	2,101	13,062	590	1,252
Not in labor force	11,764	1,552	9,035	390	779
Prevented from working .	8,550	1,151	6,524	311	560
PUBLIC TRANSPORTATION DISABILITY STATUS					
Persons 16 to 64 years	644,993	57,739	517,509	24,191	45,447
With a public transportation disability	7,700	1,014	5,938	246	499
With a work disability ...	7,203	977	5,562	205	456
Persons 65 years and over	72,917	8,967	53,019	4,142	6,752
With a public transportation disability	8,503	840	6,595	512	546

1/ Includes Kalawao County, not shown separately.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), tables 70 and 179.

Table 362.-- INDUSTRIAL ACCIDENTS, DEATHS, AND INSURANCE PAYMENTS: 1973 TO 1983

Year	Accidents		Deaths		Insurance payments ($1,000)
	Number	Rate 1/	Number	Rate 2/	
1973	36,277	59.06	61	7.2	19,548
1974	37,646	60.47	72	8.3	18,341
1975	40,435	62.53	59	6.7	22,503
1976	38,721	58.60	39	4.3	27,760
1977	37,393	54.76	50	5.5	23,652
1978	38,869	54.10	48	5.2	32,847
1979	43,057	57.01	49	5.2	42,573
1980	47,725	62.01	49	5.1	55,331
1981	44,320	57.50	36	3.7	66,950
1982	40,521	53.19	47	4.7	90,778
1983	39,013	51.05	48	4.7	103,338

1/ Accidental injuries per 1,000,000 estimated non-federal wage and salary employee hours.

2/ Accidental deaths per 100,000 total resident population, July 1.

Source: Hawaii State Department of Labor and Industrial Relations, records.

Table 363.-- RECORDABLE OCCUPATIONAL INJURIES AND ILLNESSES OF NONGOVERNMENTAL WORKERS: 1981 AND 1982

[Data exclude agricultural employers with fewer than 11 employees]

Subject	1981 total	1982		
		Total	Injuries	Illnesses
Recordable cases	28,524	28,257	27,712	545
Lost workday cases	14,715	15,477	15,190	287
Lost workdays	212,784	214,346	207,154	7,192
Per lost workday case	14	14	14	25
Nonfatal cases without lost workdays.	13,788	12,755	12,507	248
Incidence per 100 full-time workers .	11.1	11.4	11.2	0.2
Agriculture	22.0	22.1	21.6	0.5
Mining	2.4	1.1	1.1	0
Construction	28.9	24.1	23.7	0.4
Manufacturing	15.4	15.4	15.1	0.3
Transportation, public utilities ..	13.4	13.4	13.2	0.2
Wholesale and retail trade	9.3	9.3	9.2	0.1
Finance, insurance, real estate ...	3.1	5.1	5.0	(Z)
Services	8.3	10.4	10.0	0.3

Z Less than 0.05.

Source: Hawaii State Department of Labor and Industrial Relations, 1982 Occupational Injuries and Illnesses Survey, State of Hawaii.

Table 364.-- MEMBERSHIP IN LABOR UNIONS AND EMPLOYEE ASSOCIATIONS: 1956 TO 1980

[Numbers in thousands. This series was discontinued after 1980]

Year	Total unions and associations		Labor unions				Professional and State employee associations
	Number	Percent of nonagricultural employment	Total	Affiliated with AFL-CIO	Unaffiliated		
					National	Local unions	
1956 1/	(NA)	(NA)	35	10	25	(NA)	(NA)
1958 1/	(NA)	(NA)	36	13	24	(NA)	(NA)
1964 1/	(NA)	(NA)	49	24	24	(NA)	(NA)
1966 ..	(NA)	(NA)	62	31	25	7	(NA)
1968 ..	77	30.2	70	36	27	7	7
1970 ..	89	30.3	82	45	30	7	8
1972 ..	123	39.9	115	78	30	7	9
1974 ..	129	38.7	121	84	29	7	8
1976 ..	140	40.1	129	95	33	(Z)	12
1978 ..	134	35.8	120	94	27	(Z)	14
1980 2/	113	28.0	(NA)	(NA)	(NA)	(NA)	(NA)

Z Fewer than 500.
NA Not available.
1/ Data limited to national and international unions.
2/ Not tabulated separately for unions and employee associations.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Handbook of Labor Statistics 1978 (Bulletin 2000, 1979), p. 504, and data supplied February 25, 1980 and March 12, 1982.

Table 365.-- STATE AND COUNTY EMPLOYEES IN COLLECTIVE BARGAINING UNITS: 1973 TO 1983

[As of December 31]

Year	Total	State employees	County employees
1973 1/	35,293	26,453	8,840
1974 2/	37,005	26,904	10,101
1975	38,778	28,791	9,987
1976	39,738	29,816	9,922
1977	40,190	30,083	10,107
1978	40,760	30,360	10,400
1979	40,026	30,123	9,903
1980	40,511	30,609	9,902
1981	41,132	31,184	9,948
1982	41,948	31,629	10,319
1983	42,296	31,915	10,381
Collective bargaining agent (union): 1983			
HGEA	17,242	13,453	3,789
UPW	9,656	6,534	3,122
HSTA	9,009	9,009	-
UHPA (UH faculty)	2,772	2,772	-
SHOPO (police officers)	2,109	-	2,109
HFFA (firefighters)	1,508	147	1,361

1/ As of February 1, 1974 for City and County of Honolulu; as of January 15, 1974 for Hawaii County; as of January 23, 1974 for Kauai County.

2/ As of January 15, 1975 for the counties.

Source: Hawaii Public Employment Relations Board, HPERB Informational Bulletin, No. 6-21.

Table 366.-- WORK STOPPAGES: 1960 TO 1983

Year	Number of stoppages begun in year	Workers involved 1/	Man-days idle during year	Percent of estimated nonagricultural working time
All stoppages: 2/				
1960	32	5,000	16,000	(NA)
1961	33	22,000	47,000	(NA)
1962	34	4,000	71,000	0.19
1963	27	23,000	176,000	0.47
1964	26	3,000	8,000	0.02
1965	24	8,000	45,000	0.11
1966	28	5,000	44,000	0.10
1967	40	11,000	87,000	0.20
1968	14	8,000	252,000	0.32
1969	26	18,000	205,000	0.03
1970	22	6,800	152,700	0.26
1971	21	3,700	32,200	0.05
1972	21	9,300	73,700	0.12
1973	11	9,600	97,100	0.12
1974	24	17,900	462,700	0.55
1975	13	1,900	32,400	0.04
1976	20	3,000	35,300	0.04
1977	8	14,700	666,000	0.74
1978	18	12,400	99,700	0.11
1979	12	11,900	274,800	0.27
1980	9	6,900	138,500	0.14
1981	7	700	14,000	0.01
Major stoppages: 3/				
1982	-	-	-	0
1983	1	2,800	5,600	0.01

NA Not available.

1/ Workers counted more than once if involved in more than one stoppage during year.

2/ Includes all stoppages involving six or more workers.

3/ Data limited to stoppages involving 1,000 or more workers and thus not comparable to statistics for earlier years.

Source: U.S. Department of Labor, Bureau of Labor Statistics, records.

Table 367.-- WORK STOPPAGES: 1978 TO 1983

[Data exclude stoppages lasting less than one full shift (8 hours) and stoppages affecting fewer than 6 workers. Beginning with 1982, these data also exclude stoppages not begun or in progress during the week containing the 12th of each month during the year]

Year	Number of stoppages 1/	Workers involved 1/	Man-days lost 2/
1978	14	1,774	33,990
1979	10	10,380	229,880
1980	9	6,886	138,490
1981	9	890	8,650
1982 3/	7	911	14,480
1983 3/	7	2,838	44,411

1/ Stoppages carrying over from previous year are counted in both years.

2/ Partly estimated.

3/ Data limited to stoppages begun or in progress during the week containing the 12th of each month during the year. The statistics for 1982 and 1983 are thus not exactly comparable to the figures for earlier years.

Source: Hawaii State Department of Labor and Industrial Relations, Research and Statistics Office, records.

INCOME, EXPENDITURES, AND WEALTH

This section presents statistics on two different aspects of income and expenditures, one relating to the State income and product system and the other to the distribution of income to families, households and individuals. Specifically, information is given on gross state product, industrial income, personal income, family and household income, poverty, personal wealth, and family expenditures. Data on wage rates, salaries, and earnings appear in Sections 3, 8, 11, and 22; on industrial payrolls, in Sections 11, 15, 20, 22, and 23; on the family income of visitors, in Section 7; on retirement payments and public assistance, in Sections 9 and 10; on taxable income, in Section 8.

Gross state product in 1983 amounted to approximately $14 billion, or triple the 1972 total. The major sources of outside income to Hawaii in 1983 were defense expenditures ($1.85 billion), pineapple production ($219 million), sugar production ($410 million), and visitor expenditures ($4.0 billion). Personal income in 1983 was $12.4 billion, compared with $4.6 billion only ten years earlier, and per capita personal income was $12,114, more than twice the 1973 level. The per capita figure for Hawaii exceeded the national average by only 4 percent, and thus failed to compensate for the Islands' much higher cost of living. The median annual income of families, based on data for 1982-1983, was $24,800; for unrelated individuals, the median was $12,100. The official poverty threshold for a 4-person nonfarm family in Hawaii was set in February 1984 at $11,730. The most recent family expenditure survey, taken in 1972 and 1973, reported that the largest items in the family budget on Oahu were housing (accounting for 33.8 percent of spending for current consumption), food (20.4 percent) and transportation (19.1 percent). Top wealthholders in 1976 included 39,000 persons with assets of $120,000 or more and 500 millionaires.

The chief sources of data shown in this section are the U.S. Bureau of Economic Analysis, U.S. Bureau of the Census, U.S. Bureau of Labor Statistics, U.S. Department of Health and Human Services, Internal Revenue Service, Hawaii Agricultural Reporting Service, Hawaii State Department of Health and Department of Planning and Economic Development, and Hawaii Visitors Bureau. Sections 6 and 7 of Historical Statistics of Hawaii present data for earlier years. Comparable data for the country as a whole are given in Statistical Abstract of the United States: 1984, Section 15.

Table 368.-- DIRECT INCOME FROM MAJOR EXPORT INDUSTRIES: 1973 TO 1983

[In millions of dollars]

Year	Total for four major industries	Value of production		Defense expenditures 1/	Visitor expenditures 2/
		Raw sugar and molasses 3/	Fresh and processed pineapple		
1973 ...	2,226	222.2	142.4	840.9	1,020
1974 ...	2,927	676.6	127.1	897.9	1,225
1975 ...	2,846	366.1	136.7	982.8	1,360
1976 ...	3,076	257.0	144.5	1,034.2	1,640
1977 ...	3,320	226.8	161.6	1,086.6	1,845
1978 ...	3,750	285.2	162.8	1,155.5	2,146
1979 ...	4,311	345.7	206.4	1,221.8	2,537
1980 ...	5,013	594.1	226.5	1,317.4	2,875
1981 ...	5,195	327.9	217.6	1,449.3	3,200
1982 ...	5,951	351.5	206.0	1,693.4	3,700
1983 ...	6,477	410.2	219.0	1,848.2	4,000

1/ Does not include military retired pay, Hawaii National Guard expenditures, or U.S. Army Corps of Engineers contracts.

2/ Direct visitor expenditures in Hawaii, exclusive of transpacific transportation and expenditures of carriers and crews. Estimates for 1981 and later years are provisional.

3/ Excludes government sugar support payments.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records; data supplied to DPED by armed forces; Hawaii Visitors Bureau, 1983 Annual Research Report, table 1.

Table 369.-- GROSS STATE PRODUCT AND PER CAPITA GROSS STATE PRODUCT: 1958 TO 1983

[This table and the ten that follow contain preliminary findings from a forthcoming DPED report, Hawaii's Income and Expenditure Accounts: 1958 to 1983. That publication will contain definitions, methodological discussion, greater detail, and further revisions]

Year	Gross state product (millions of dollars)		Per capita gross state product (dollars)	
	Current dollars	1972 dollars	Current dollars	1972 dollars
1958	1,414.7	2,220.9	2,337	3,669
1959	1,570.2	2,329.7	2,524	3,745
1960	1,800.4	2,613.1	2,807	4,074
1961	1,883.1	2,682.5	2,859	4,073
1962	1,964.1	2,731.7	2,874	3,997
1963	2,100.1	2,789.0	3,078	4,088
1964	2,301.2	3,064.2	3,288	4,378
1965	2,531.1	3,370.3	3,596	4,788
1966	2,771.4	3,562.2	3,902	5,015
1967	2,990.5	3,728.8	4,139	5,161
1968	3,340.0	3,966.7	4,547	5,400
1969	3,745.7	4,227.7	4,993	5,635
1970	4,173.5	4,492.5	5,409	5,822
1971	4,454.8	4,592.6	5,557	5,729
1972	4,927.2	4,927.2	5,948	5,848
1973	5,601.7	5,513.5	6,578	6,474
1974	6,454.2	5,840.9	7,436	6,729
1975	6,909.7	5,956.6	7,797	6,722
1976	7,211.0	6,024.2	7,975	6,663
1977	8,152.8	6,590.8	8,879	7,178
1978	9,265.0	6,847.7	9,945	7,351
1979	10,527.2	7,127.4	11,043	7,477
1980	11,878.7	7,256.4	12,260	7,490
1981	13,014.5	7,198.3	13,267	7,338
1982	13,503.4	7,066.1	13,543	7,087
1983	14,242.7	7,292.7	13,987	7,162

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958 to 1980 (March 1982), pp. 20-25, as revised, and Statistical Reports 172 and 173.

Table 370.-- PERSONAL INCOME AND ITS DISPOSITION: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Personal income	10,878.3	11,552.0	12,396.0
Wage and salary disbursements	7,127.2	7,605.6	8,069.8
Other labor income	522.6	612.6	680.1
Proprietors' income	369.9	258.9	333.2
Rental income of persons	236.1	236.8	330.1
Dividends	261.0	254.3	268.9
Personal interest income	1,480.3	1,611.4	1,649.1
Net interest	1,396.5	1,519.2	1,523.6
Government interest, net	-142.9	-148.6	-142.5f
State and local (includes state retirement fund)	-152.5	-157.9	-153.1f
Federal	9.6p	9.3p	10.6p
Interest paid by consumers to business	226.7p	240.8p	268.0p
Transfer payments to persons	1,388.5	1,522.7	1,658.0
Government	1,334.5p	1,464.0p	1,593.1p
State and local	239.8p	261.8p	284.5p
Federal	1,094.7p	1,202.2p	1,308.6p
Business	54.0	58.8	64.9
Less: Personal contributions for social insurance	507.5	550.2	593.1
State and local government programs	73.8p	80.0p	86.2p
Federal government programs	433.7p	470.2p	506.9p
Disposition of personal income			
Less: Personal tax and non-tax payments	1,339.3p	1,385.7p	1,432.6p
State and local	653.8	681.0	721.6f
Federal	685.5p	704.7p	711.0p
Equals: Disposable personal income	9,539.0	10,166.3	10,963.4
Less: Personal outlays	9,120.6	9,694.5	10,502.4
Personal consumption expenditures	8,868.9	9,426.3	10,204.9
Interest paid by consumers to business	226.7p	240.8p	268.0p
Unilateral transfer payments to persons, net	25.0	27.4	29.5
Equals: Personal saving	418.4	471.8	461.0

Footnotes and source follow table 379.

Table 371.-- EXPENDITURES ON GROSS STATE PRODUCT: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Gross state product	13,014.5	13,503.4	14,242.7
Personal consumption expenditures	8,868.9	9,426.3	10,204.9
Food, alcoholic beverages and tobacco	2,965.2	3,109.6	3,310.5
Clothing, accessories and jewelry	933.7	960.4	1,026.8
Personal care	127.7	135.0	144.3
Housing	2,975.6	3,363.6	3,660.9
Household operation	1,054.7	1,124.6	1,212.5
Medical care	899.9	1,010.9	1,100.2
Personal business	879.0	1,001.4	1,145.8
Transportation	1,180.0	1,209.4	1,320.7
Recreation	654.4	713.6	789.0
Private education and research	87.7	94.6	99.7
Religious and welfare activities	108.2	125.7	137.2
Foreign travel and other, net	-2,997.2	-3,422.5	-3,742.7
Gross private domestic investment	2,025.7	1,764.1	1,778.9
Fixed investment	1,839.3	1,608.1	1,599.6
Change in business inventories	186.4p	156.0p	179.3p
Government purchases of goods and services	4,039.5	4,493.6	4,717.9
State and local	2,033.3	2,195.7	2,265.8
Compensation of employees	993.1	1,079.6	1,111.7
Other current expenditures	701.4	755.5	775.7
Equipment	40.4	47.4	48.6
Construction	298.4	313.2	329.8
Federal	2,006.2p	2,297.9p	2,452.1p
Defense	1,885.2	2,162.6	2,307.4
Non-defense	121.0	135.3	144.7
Net exports	-2,248.3	-1,505.4	-1,401.6
Exports	5,680.7	6,204.1	6,705.5
Commodities	1,289.1	1,274.4	1,439.2
Services	1,176.6	1,214.7	1,252.3
Visitor and crew expenditures	3,215.0	3,715.0	4,014.0
Less: Imports	7,929.0	7,709.5	8,107.1
Commodities	6,241.3	5,808.9	6,243.7
Services	1,469.8	1,608.1	1,592.0
Out-of-state expenditures of Hawaii residents	217.8	292.5	271.3
Discrepancy and omissions	328.6p	-675.2p	-1,057.5p

Footnotes and source follows table 379.

Table 372.-- EXPENDITURES ON GROSS STATE PRODUCT (1972 DOLLARS): 1981 TO 1983

[In millions of 1972 dollars]

Item	1981	1982	1983
Gross state product	7,198.3	7,066.1	7,292.7
Personal consumption expenditures	4,159.5	4,308.5	4,587.8
Food, alcoholic beverages and tobacco	1,278.1	1,282.3	1,330.1
Clothing, accessories and jewelry	591.1	574.4	595.6
Personal care	62.4	58.8	61.0
Housing	1,459.5	1,640.8	1,760.0
Household operation	519.7	534.5	559.5
Medical care	396.5	488.8	539.5
Personal business	410.0	413.8	479.8
Transportation	634.5	582.0	640.2
Recreation	327.8	350.7	371.3
Private education and research	42.7	43.1	44.8
Religious and welfare activities	52.6	57.2	61.6
Foreign travel and other, net	-1,615.4	-1,717.9	-1,855.6
Gross private domestic investment	1,117.6	992.9	948.0
Fixed investment	1,026.9	921.3	867.5
Change in business inventories	90.7	71.6	80.5
Government purchases of goods and services	1,927.3	2,129.4	2,236.5
State and local	972.3	994.8	1,074.2
Compensation of employees	483.3	495.5	499.2
Other current expenditures	341.3	346.7	398.3
Equipment	18.2	25.9	26.5
Construction	129.3	126.7	150.2
Federal	955.2	1,134.6	1,162.3
Defense	900.0	1,067.8	1,102.0
Non-defense	55.2	66.8	60.3
Net exports	-163.4	-54.8	-4.6
Exports	2,894.6	2,980.7	3,170.5
Commodities	606.4	578.5	638.6
Services	572.6	557.5	562.3
Visitor and crew expenditures	1,715.6	1,844.7	1,969.6
Less: Imports	3,058.0	3,035.5	3,175.1
Commodities	2,285.4	2,182.4	2,351.4
Services	672.4	726.3	709.8
Out-of-state expenditures of Hawaii residents	100.2	126.8	114.0
Discrepancy and omissions	159.9	-309.9	-474.9

Footnotes and source follow table 379.

Table 373.-- CHARGES AGAINST GROSS STATE PRODUCT: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Compensation of employees	8,251.8p	8,870.7p	9,453.2p
Wage and salary disbursements	7,127.2	7,605.6	8,069.8
Supplements to wages and salaries	1,124.5	1,265.1	1,383.5
Employer contributions for social insurance	601.9p	652.5p	703.4p
State and local government programs	95.6p	103.6p	111.7p
Federal government programs	506.4p	548.9p	591.7p
Other labor income	522.6	612.6	680.1
Proprietors' income	369.9	258.9	333.2
Rental income of persons	236.1	236.8	330.1
Corporate profits before tax	765.5	715.1	639.2
Profits tax	185.7	121.8	51.4f
State and local tax	48.0	32.6	22.0f
Federal tax	137.7	89.1	29.4f
Profits after tax	579.8	593.3	587.8
Dividends	261.0	254.3	268.9
Undistributed profits	318.8	339.1	318.9
Net interest	1,396.5	1,519.2	1,523.6
Personal interest income	1,480.3	1,611.4	1,649.1
Less: Government interest, net	-142.9	-148.6	-142.5f
State and local (includes state retirement fund)	-152.5	-157.9	-153.1f
Federal	9.6p	9.3p	10.6p
Less: Interest paid by consumers to business	226.7p	240.8p	268.0p
Net state income	11,019.9	11,600.8	12,279.4
Business transfer payments	54.0	58.8	64.9
Indirect business tax and non-tax, state and local	1,025.3	1,057.3	1,109.5f
Less: Subsidies less current surplus of state and local government enterprises	-15.3	-15.7	-14.4f
Indirect business tax and non-tax, Federal	49.2	43.6	55.6f
Less: Subsidies less current surplus of Federal government enterprises	-110.9	-124.9	-125.5f
Net state product	12,274.6	12,900.9	13,649.4
Capital consumption allowances	739.9	602.4	593.3
Gross state product	13,014.5	13,503.4	14,242.7

Footnotes and source follow table 379.

Table 374.-- PERSONAL EXPENDITURES: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Personal expenditures	10,878.3	11,552.0	12,396.0
Personal tax and non-tax payments	1,339.3p	1,355.7p	1,432.6f
State and local	653.8	681.0	721.6f
Federal	685.5p	704.7p	711.0p
Personal outlays	9,120.6p	9,694.5p	10,502.4p
Personal consumption expenditures	8,868.9	9,426.3	10,204.9
In Hawaii	11,866.1	12,848.8	13,947.6
Food, alcoholic beverages and tobacco	2,965.2	3,109.6	3,310.5
Food and alcohol	1,455.8	1,526.8	1,625.7
Food and alcohol, away from home	1,440.7	1,511.3	1,609.0
Tobacco	68.7	71.5	76.1
Clothing, accessories and jewelry	933.7	960.4	1,026.8
Clothing and accessories	593.7	610.9	653.1
Footwear	107.0	110.4	118.1
Upkeep	43.6	45.1	48.3
Jewelry	189.4	194.0	207.3
Personal care	127.7	135.0	144.3
Housing	2,975.6	3,363.6	3,660.9
Owner-occupied	927.1	1,049.4	1,142.2
Tenant-occupied	953.9	1,079.8	1,175.1
Hotels and other group quarters	1,094.6	1,234.4	1,343.6
Household operation	1,054.7	1,124.6	1,212.5
Operation and furnishing	800.3	853.6	920.3
Fuel and utilities	254.4	271.0	292.2
Medical care	899.9	1,010.9	1,100.2
Personal business	879.0	1,001.4	1,145.8
Transportation	1,180.0	1,209.4	1,320.7
Private	894.3	916.7	1,001.1
Public	285.7	292.7	319.6
Recreation	654.4	713.6	789.0
Private education and research	87.7	94.6	99.7
Religious and welfare activities	108.2	125.7	137.2
Foreign travel and other net	-2,997.2	-3,422.5	-3,742.7
Out-of-State expenditures of residents	217.8	292.5	271.3
Less: Visitor expenditures	3,215.0	3,715.0	4,014.0
Interest paid by consumers to business	226.7	240.8	268.0
Unilateral transfer payments to persons, net	-24,974	-27,404	-29,542
Personal savings	418.4	471.8	461.0

Footnotes and source follows table 319.

Table 375.-- SAVINGS AND INVESTMENT ACCOUNT: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Gross savings	1,744.2p	1,553.1p	1,520.5p
Personal savings	418.4p	471.8p	461.0p
Undistributed profits	318.8	339.1	318.9
Capital consumption allowances	739.9	602.4	593.3
Government surplus or deficit (-) State & local	267.1p	139.8p	147.3p
Gross investment	1,744.2p	1,553.1p	1,520.5p
Gross private domestic investment	2,025.7	1,764.1	1,778.9
Fixed investment	1,839.3	1,608.1	1,599.6
Non-residential	1,116.1	1,170.3	1,185.1
Structures	471.2	477.2	486.4
Buildings	320.2	356.2	368.4
Hotels	43.7	77.4	65.8
Commercial	276.5	278.8	302.6
New	174.5	197.4	214.9
Additions and alterations	102.0	81.5	87.7
Non-structural activity	151.0	121.0	118.0
Construction	95.9	76.8	74.9
Architects' and engineers' fees	55.1	40.2	43.1
Producers' durable equipment	644.9p	693.1p	698.7p
Residential	723.2	437.8	414.5
New dwellings	662.3	378.3	316.2
Single family units	179.8	141.8	167.6
Multi-family units	482.5	236.5	148.6
Additions and alterations	60.9	59.6	98.2
Change in business inventories	186.4p	156.0p	179.3p
Discrepancy and omissions	328.6p	-675.2p	-1,057.5p
Net external investment	-610.1p	464.4p	799.1p
Addenda: New private construction expenditures	1,194.5	915.0	901.0
Honolulu	616.3	522.3	594.8
Hawaii	159.1	129.2	107.3
Kauai	115.0	79.9	113.5
Maui	304.1	183.6	85.4

Footnotes and source follows table 379.

Table 376.-- STATE AND LOCAL GOVERNMENT REVENUES AND EXPENDITURES: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983f
Total revenues	2,372.4	2,423.7	2,530.0
State and local tax and non-tax revenues	1,887.4	1,954.5	2,050.9
Personal tax and non-tax	653.8	681.0	721.6
Income taxes	308.9	315.0	347.0
Inheritance and estate taxes	4.8	5.8	6.4
Other taxes	21.3	21.7	22.6
Non-taxes	318.8	338.5	345.5
Corporate profits tax	48.0	32.6	22.0
Indirect business tax and non-tax	1,025.3	1,057.3	1,109.5
Excise taxes	629.1	650.8	666.1
General	591.3	575.6	587.5
Fuel	50.8	50.9	51.7
Liquor	7.3	8.5	9.3
Tobacco	13.9	15.8	17.6
Property taxes	235.8	264.7	274.9
Other taxes	100.3	108.6	111.0
Non-taxes	60.0	59.6	57.5
Contribution for social insurance programs	169.4p	183.6p	197.9p
Employers	95.6	103.6	111.7
State retirement	88.2	95.6	103.0
Workers' compensation	7.4	8.0	8.7
Personal, state retirement	73.8	80.0	86.2
Federal grants-in-aid	475.9	469.2	479.1
Total expenditures	2,105.3	2,283.9	2,382.8
Purchases of goods and services	2,033.3	2,195.7	2,265.8
Compensation of employees	993.1	1,079.6	1,111.7
Purchases from business	1,040.1	1,116.1	1,154.3
Other current expenditures	701.4	755.5	775.7
Equipment	40.4	47.4	48.6
Construction	298.4	313.2	329.8
Transfer payments to persons	239.8p	261.8p	284.5p
Net interest paid	-152.5	-157.9	-153.1
Subsidies less current surplus of government enterprises	-15.3	-15.7	-14.4
Surplus or deficit (-)	267.1p	139.8p	147.3p

Footnotes and source follow table 379.

Table 377.-- FEDERAL GOVERNMENT REVENUES AND EXPENDITURES: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983f
Total revenues	3,475.5	3,853.7	4,124.9
Federal tax and non-tax revenues	1,808.6	1,856.5	1,895.0
Personal tax and non-tax	685.5	704.7	711.0
Income tax	661.8	681.0	685.3
Estate and gift tax	23.7	23.7	25.7
Corporate profits tax	137.7	89.1	29.4
Indirect business tax	49.2	43.6	55.6
Excise taxes	14.1	15.2	24.5
Gasoline	1.4	2.3	2.1
Liquor	0.2	0.3	3.3
Telephone and teletypewriter	4.0	3.8	4.4
Transportation of persons by air	5.6	5.0	10.4
Other (less refunds)	2.9	3.8	4.3
Customs collections	31.2	28.4	31.5
Contributions for social insurance programs	940.1p	1,019.1p	1,098.6p
Employers'	506.4	548.9	591.7
Personal	433.7	470.2	506.9
Transfers from Federal Government in D.C.	1,663.0	1,997.2	2,230.3
Total expenditures	3,475.5	3,853.7	4,124.9
Purchases of goods and services	2,006.2p	2,297.9p	2,452.1p
National defense	1,885.2	2,162.6	2,307.4
Compensation of employees	1,499.3	1,694.6	1,811.2
Civilian	539.3	595.3	637.2
Military	960.0	1,099.3	1,174.0
Other	385.9	468.0	496.2
Non-defense	121.0	135.3	144.7
Compensation of employees, civilian	105.0	115.9	124.1
Other	16.0	19.4	20.6
Transfer payments to persons	1,094.7	1,202.2	1,308.6
Civilians	860.3	940.1	1,023.3
Non-profit institutions	13.4	10.8	12.1
Military	142.0	179.0	192.3
Unemployment	65.6	72.3	80.9
Grants-in-aid to state and local government	475.9	469.2	479.1
Net interest paid	9.6	9.3	10.6
Subsidies less current surplus of government enterprises	-110.9	-124.9	-125.5
Subsidies	0.6	0.6	6.8
Less: Current surplus	111.5	125.5	132.3

Footnotes and source follow table 379.

Table 378.-- IMPORTS AND EXPORTS: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Total imports	7,379.4	8,238.1p	8,974.8p
Imports of goods and services	7,929.0	7,709.5p	8,107.1
Merchandise imports, domestic and foreign	6,241.3	5,808.9p	6,243.7p
Domestic imports	4,716.1	4,575.4p	4,878.2p
Domestic imports, waterborne	4,500.2	(NA)	(NA)
Farm products	49.4	(NA)	(NA)
Processed foods and feeds	489.8	(NA)	(NA)
Fuels and petroleum products	1,125.4	(NA)	(NA)
Manufactured goods	453.2	(NA)	(NA)
Miscellaneous and containerized cargo	1,060.9	(NA)	(NA)
Other	1,321.5	(NA)	(NA)
Domestic imports, airborne	215.9	231.6	(NA)
Foreign imports	1,525.2	1,233.5	1,365.5
Farm products	4.5	4.7	5.7
Processed foods and feeds	89.2	84.0	87.8
Fuels and petroleum products	1,005.6	676.9	778.2
Manufactured goods	148.1	154.3	142.1
Miscellaneous and containerized cargo	7.9	25.2	21.0
Other	269.9	288.4	330.7
Services and income from investments	1,469.8	1,608.1	1,592.0
Out-of-State expenditures by Hawaii residents	217.8	292.5	271.3
Unilateral transfer payments (from Hawaii) to persons	60.7	64.2	68.5
Net external investment	-610.1p	464.4p	799.2p
Total exports	7,379.4p	8,238.1p	8,974.8p
Exports of goods and services	5,680.7p	6,204.1p	6,705.5
Merchandise exports	1,289.1	1,274.4	1,439.2
Sugar and molasses	331.6	258.5	389.4
Pineapple, fresh and canned	199.1	187.3	206.4
Garments	44.6	38.4	29.5
Processed food	64.5	56.4	56.8
Other	54.3	50.2	56.7
Miscellaneous	594.9	683.7	700.5
Services and income from investment	1,176.6	1,214.7	1,252.3
Visitor and crew expenditures	3,215.0	3,715.0	4,014.0
Unilateral transfer payments (to Hawaii) to persons	35.7	36.8	39.0
Transfers from Federal government in D.C.	1,663.0	1,997.2	2,230.3

Footnotes and source follow table 379.

Table 379.-- VISITORS' PERSONAL CONSUMPTION EXPENDITURES: 1981 TO 1983

[In millions of current dollars]

Item	1981	1982	1983
Personal consumption expenditures	3,215.0	3,730.0	4,014.0
Food and tobacco	1,025.0	1,196.6	1,288.1
Food and alcohol, at home	260.2	315.0	339.6
Food and alcohol, away from home	731.6	843.0	906.9
Tobacco	33.2	38.6	41.5
Clothing, accessories, and jewelry	839.6	823.8	886.7
Shoes and foot wear	12.1	13.9	15.0
Clothing and accessories	331.6	388.1	417.8
Women's and girls'	205.3	240.3	258.7
Mens and boys'	126.3	147.8	159.1
Cleaning and repair	9.0	10.6	11.4
Jewelry	60.2	73.6	79.3
Personal care	314.0	36.8	39.6
Toilet articles and preparations	13.6	15.9	17.1
Barber shops, beauty parlors, and baths	17.8	20.9	22.5
Housing	997.7	1,135.9	1,221.3
Household operation	149.3	178.0	191.8
China, glasswear, tablewear and utensils	45.2	54.6	58.8
Other durable house furnishings	57.5	68.8	74.2
Non-durable house furnishings	32.7	38.5	41.4
Telephone, telegraph and other services	14.0	16.2	24.8
Medical care expenses	28.5	32.9	35.4
Transportation	352.1	410.2	441.5
User-operated transportation	136.7	153.7	165.2
Purchased local transportation	50.2	57.3	61.6
Purchased inter-city transportation	165.7	199.7	214.7
Recreation	218.1	253.4	272.8
Books, radios and other durables	13.5	15.8	17.0
Sport supplies, flowers and other non-durables	33.6	40.6	43.8
Movies, spectator sports and other services	157.5	181.2	194.9
Addenda:			
Total durables	176.3	212.7	229.4
Total non-durables	1,526.3	1,782.4	1,918.6
Total services	1,512.3	1,734.9	1,866.0

f Fiscal year.
p Preliminary estimate.
NA Not available.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958-1980 (March 1982), as revised.

Table 380.-- TOTAL AND PER CAPITA PERSONAL INCOME AND DISPOSABLE PERSONAL INCOME: 1970 TO 1983

Year	Personal income (millions of dollars)		Per capita personal income (dollars)		Per capita personal income as percent of U.S. average	
	Total	Disposable	Total	Disposable	Total	Disposable
1970 ...	3,566	2,974	4,674	3,899	118	115
1971 ...	3,823	3,235	4,830	4,087	116	113
1972 ...	4,178	3,477	5,107	4,250	113	111
1973 ...	4,650	3,885	5,524	4,615	110	107
1974 ...	5,298	4,452	6,174	5,188	113	111
1975 ...	5,785	5,000	6,612	5,714	113	113
1976 ...	6,223	5,332	6,973	5,975	110	109
1977 ...	6,975	5,979	7,617	6,529	109	109
1978 ...	7,771	6,636	8,367	7,144	108	108
1979 ...	8,685	7,372	9,141	7,759	106	106
1980 ...	9,810	8,312	10,129	8,582	107	107
1981 ...	10,878	9,243	11,090	9,423	105	106
1982 ...	11,552	10,025	11,590	10,059	104	107
1983 ...	12,396	10,759	12,114	10,515	104	106

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printouts dated August 1984.

Table 381.-- PERSONAL INCOME BY MAJOR SOURCES: 1978 TO 1983

[In millions of dollars]

Item	1978	1979	1980	1981	1982	1983
Labor and proprietors income						
By type:						
Wage and salary disbursements ..	5,364	5,941	6,633	7,127	7,606	8,070
Other labor income	364	398	464	523	613	680
Proprietors income	292	316	339	370	259	333
Farm	20	18	61	25	22	31
Nonfarm	272	298	278	345	237	302
By industry:						
Farm	172	196	275	226	262	264
Nonfarm	5,848	6,459	7,161	7,794	8,215	8,819
Private	3,808	4,348	4,802	5,234	5,350	5,769
Government and govt. enterprises	2,040	2,111	2,359	2,559	2,865	3,050
Federal, civilian	565	599	662	715	791	851
Federal military	726	747	818	923	1,057	1,129
State and local	749	765	878	921	1,016	1,070
Derivation of personal income						
Labor and proprietors income	6,020	6,655	7,436	8,020	8,477	9,083
Less: Personal contributions for social insurance	350	405	453	507	550	593
Net labor and proprietors income .	5,669	6,250	6,984	7,512	7,927	8,490
Plus: Dividends, interest, and rent	1,168	1,401	1,625	1,978	2,102	2,248
Plus: Transfer payments	934	1,033	1,202	1,388	1,523	1,658
Personal income	7,771	8,685	9,810	10,878	11,552	12,396

Source: U.S. Department of Commerce, Bureau of Economic Analysis, microfiche dated August 1984.

Table 382.-- TOTAL PERSONAL INCOME, BY COUNTIES: 1959 TO 1982

[Millions of dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	1,282.5	1,061.4	221.1	100.3	49.5	71.3
1962	1,635.0	1,369.0	266.0	122.0	59.1	84.9
1965	2,050.5	1,718.8	331.7	149.2	73.0	109.5
1966	2,245.0	1,881.4	363.6	164.5	79.9	119.2
1967	2,433.6	2,044.0	389.6	172.4	86.5	130.7
1968	2,725.7	2,291.4	434.4	195.6	94.2	144.5
1969	3,113.9	2,632.6	481.3	217.0	103.6	160.7
1970	3,566.0	3,011.1	554.9	258.0	112.7	184.3
1971	3,823.2	3,213.7	609.5	285.3	122.4	201.8
1972	4,177.8	3,521.6	656.2	309.4	128.5	218.3
1973	4,650.4	3,915.4	735.0	340.8	146.4	247.7
1974	5,297.7	4,362.7	935.0	457.8	180.4	296.8
1975	5,785.4	4,799.7	985.7	463.6	185.9	336.2
1976	6,222.5	5,159.2	1,063.3	486.5	201.4	375.4
1977	6,975.0	5,786.3	1,188.6	531.9	227.3	429.4
1978	7,782.1	6,436.5	1,345.6	597.1	258.5	490.0
1979	8,719.0	7,183.9	1,535.2	673.3	293.6	568.3
1980	9,900.1	8,082.7	1,817.4	816.9	345.8	654.6
1981	10,836.4	8,880.9	1,955.5	858.2	376.0	721.2
1982	11,589.3	9,484.4	2,104.9	902.0	407.5	795.3

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printout dated April 1984.

Table 383.-- PER CAPITA PERSONAL INCOME, BY COUNTIES: 1959 TO 1982

[Dollars]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui and Kalawao
1959	2,103	2,201	1,731	1,695	1,821	1,725
1962	2,504	2,618	2,045	2,044	2,105	2,007
1965	2,938	3,052	2,460	2,419	2,531	2,470
1966	3,221	3,337	2,730	2,712	2,810	2,703
1967	3,437	3,558	2,917	2,853	3,022	2,936
1968	3,791	3,922	3,224	3,201	3,232	3,253
1969	4,191	4,363	3,449	3,440	3,448	3,462
1970	4,674	4,827	3,988	4,059	3,803	4,007
1971 1/	4,830	5,077	3,844	3,882	3,681	3,897
1972	5,107	5,297	4,281	4,425	4,034	4,240
1973	5,524	5,726	4,650	4,678	4,501	4,702
1974	6,174	6,250	5,841	6,196	5,545	5,531
1975	6,612	6,781	5,896	6,005	5,581	5,933
1976	6,973	7,196	6,061	6,045	5,791	6,239
1977	7,617	7,873	6,575	6,439	6,417	6,842
1978	8,378	8,692	7,146	6,970	7,043	7,430
1979	9,177	9,535	7,808	7,559	7,723	8,173
1980	10,222	10,569	8,920	8,803	8,788	9,144
1981	11,044	11,516	9,310	8,954	9,326	9,763
1982	11,614	12,130	9,747	9,148	9,869	10,458

1/ Decline in Neighbor Island per capita incomes may reflect use of too-high population estimates.

Source: U.S. Department of Commerce, Bureau of Economic Analysis, printout dated April 1984.

Table 384.-- UNREPORTED OR ILLEGAL INCOME: 1981

[In millions of dollars. Data are rough estimates of income from the "underground economy," calculated in part by applying national ratios of unreported to reported income, developed by Carl Simon and Ann Witte, to the official personal income estimate ($10.8 billion in 1981) published for Hawaii]

Source	Amount
Total	1,160.3
Income hidden to avoid taxes	569.1
Legal wages and salaries	147.4
Legal self-employment earnings	316.8
Dividends	17.0
Interest	52.3
Rents and royalties	22.6
Estate and trust income	1.7
Corporate income	11.3
Income earned by avoiding cigarette, alcohol and sales taxes	2.3
Unreported income of illegal alien workers	6.7
Income from illegal transfers	56.0
To thieves and fences handling stolen goods	22.5
Fraud arson	5.9
Other fraud (bankruptcy, check, consumer, credit card, insurance, securities)	19.2
Counterfeiting	-
Embezzlement	3.5
Bribery	4.9
Income from production and distribution of illegal goods	445.6
Drugs	440.2
Marijuana	361.6
Cocaine	47.1
Heroin	25.9
Other drugs	5.4
Smuggling of goods other than drugs	1.2
Pornography	4.2

Continued on next page.

Table 384.-- UNREPORTED OR ILLEGAL INCOME: 1981 -- Con.

Source	Amount
Income from illegal services	58.0
Takeout from illegal gambling	38.5
Loan sharking	1.1
Prostitution	18.4
Other illegal income (hijacking, forgery, protection and extortion, pirating of records and taxes)	22.6

Source: Linda Kephart, "Business booms 'off-the-books,'" Hawaii Business, March 1984, p. 69.

Table 385.-- INCOME PROJECTIONS: 1980 TO 2005

[Constant 1980 dollars]

Year	Gross State product (millions)	Personal income (millions)	Disposable personal income (millions)	Per capita personal income (dollars)
1980 (est.)	11,336.2	9,862.0	8,385.0	10,188
1985	12,106.4	11,127.8	9,514.3	10,520
1990	14,061.8	12,896.3	11,026.3	11,328
1995	16,192.3	14,774.3	12,632.0	12,195
2000	18,264.4	16,611.9	14,203.1	13,103
2005	20,180.8	18,336.8	15,678.0	13,998

Source: Hawaii State Department of Planning and Economic Development, Population and Economic Projections for the State of Hawaii, 1980-2005 (July 1984), p. 15.

Table 386.-- MEDIAN INCOME OF HOUSEHOLDS, FAMILIES, UNRELATED INDIVIDUALS, AND PERSONS DURING PRECEDING YEAR: 1950 TO 1980

[Dollars]

Year	Households	Families	Unrelated individuals	Persons with income 1/	
				Male	Female
1950	(NA)	3,568	1,583	2,340	1,247
1960	(NA)	6,366	1,998	3,753	1,796
1970	10,675	11,664	2,981	6,528	3,222
1976 2/	15,991	17,770	6,180	9,489	4,082
1980	20,473	22,750	7,097	11,505	6,581

NA Not available.

1/ 14 years old and over through 1976, and 15 years old and over in 1980.

2/ Excludes persons in military group quarters.

Source: U.S. Bureau of the Census, Census of Population: 1960, General Social and Economic Characteristics, Hawaii, Final Report PC(1)-13C (1962), tables 66 and 67 (for 1950 data); 1970 Census of Population, General and Economic Characteristics, Hawaii, PC(1)-C13 (December 1971), table 47 (for 1960 data); 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 61 (for 1970 and 1980 data); "Household Money Income in 1975, by Housing Tenure and Residence, for the United States, Regions, Divisions, and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 108 (November 1977), p. 145; "Money Income and Poverty Status in 1975 of Families and Persons in the United States and the West Region, by Divisions and States (Spring 1976 Survey of Income and Education)," Current Population Reports, Consumer Income, Series P-60, No. 113 (July 1978), pp. 175-177.

Table 387.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980

[Income received in 1979 by households, families, and persons surveyed in 1980]

Income	The State	Oahu	Other islands
Households	294,934	230,931	64,003
Less than $5,000	24,433	17,631	6,802
$5,000 to $7,499	18,775	13,771	5,004
$7,500 to $9,999	21,209	16,663	4,546
$10,000 to $14,999	41,604	32,320	9,284
$15,000 to $19,999	37,836	28,833	9,003
$20,000 to $24,999	34,842	26,768	8,074
$25,000 to $34,999	52,585	41,728	10,857
$35,000 to $49,999	39,955	33,443	6,512
$50,000 or more	23,695	19,774	3,921
Median	$20,473	$21,077	$18,457
Mean	$24,519	$25,180	$22,132
Families	227,974	178,516	49,458
Less than $5,000	11,533	8,603	2,930
$5,000 to $7,499	12,195	8,920	3,275
$7,500 to $9,999	15,068	11,817	3,251
$10,000 to $14,999	29,796	22,815	6,981
$15,000 to $19,999	28,957	21,572	7,385
$20,000 to $24,999	28,013	21,234	6,779
$25,000 to $34,999	45,089	35,482	9,607
$35,000 to $49,999	36,236	30,450	5,786
$50,000 or more	21,087	17,623	3,464
Median	$22,750	$23,554	$20,600
Mean	$26,629	$27,318	$24,139
Unrelated individuals 15 years and over	136,692	112,303	24,389
Less than $2,000	17,492	13,797	3,695
$2,000 to $2,999	7,698	5,713	1,985
$3,000 to $4,999	16,598	12,795	3,803
$5,000 to $7,999	34,234	29,848	4,386
$8,000 to $9,999	13,112	11,007	2,105
$10,000 to $14,999	21,340	17,209	4,131
$15,000 to $24,999	18,037	14,972	3,065
$25,000 to $49,999	6,841	5,866	975
$50,000 or more	1,340	1,096	244
Median	$7,097	$7,167	$6,735
Mean	$9,947	$10,061	$9,423

Continued on next page.

Table 387.-- INCOME OF HOUSEHOLDS, FAMILIES, AND PERSONS IN 1979: 1980 -- Con.

Income	The State	Oahu	Other islands
Males 15 years and over, with income	349,836	278,284	71,552
Median income	$11,505	$11,548	$11,363
Percent year-round full-time workers	55.5	56.8	50.3
Median income	$15,759	$15,840	$15,500
Females 15 years and over, with income	282,592	223,414	59,178
Median income	$6,581	$6,728	$5,995
Percent year-round full-time workers	36.5	37.1	34.1
Median income	$10,910	$11,052	$10,376
Per capita income	$7,740	$7,912	$7,088
Persons in households	$7,834	$8,024	$7,140
Persons in group quarters	$5,543	$5,709	$3,401

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C-13 (June 1983), table 71.

Table 388.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980

Subject	1970	1980	Percent 1970	Percent 1980
INCOME IN PREVIOUS YEAR				
Households	204,415	294,934	...	...
Median income (current dollars)	$10,675	$20,473	...	...
Median income (1979 dollars)	$21,137	$20,473	...	...
Families	170,729	227,974	...	...
Median income (current dollars)	$11,664	$22,750	...	...
Median income (1979 dollars)	$23,095	$22,750	...	...
Unrelated individuals 15 years and over	83,093	136,692	...	...
Median income (current dollars)	$2,981	$7,097	...	...
Median income (1979 dollars)	$5,902	$7,097	...	...
Male, 15 years and over 1/	289,165	378,942	100.0	100.0
Without income	29,578	29,106	10.2	7.7
With income	259,587	349,836	89.8	92.3
Median income (current dollars)	$6,528	$11,505	...	...
Median income (1979 dollars)	$12,925	$11,505	...	...
Female, 15 years and over 1/	264,590	360,707	100.0	100.0
Without income	94,729	78,115	35.8	21.7
With income	169,861	282,592	64.2	78.3
Median income (current dollars)	$3,222	$6,581	...	...
Median income (1979 dollars)	$6,380	$6,681	...	...
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL 2/				
Persons for whom poverty status is determined	68,364	91,618	9.3	9.9
65 years and over	8,457	7,654	19.9	10.5
In families	51,530	66,843	7.6	8.2
Householder	13,063	17,700	7.7	7.8
Female householder, no husband present	5,180	7,985	32.4	28.0
Related child under 18 years	27,895	35,103	10.3	13.0
Related child under 6 years	10,129	14,725	11.9	16.3
Other relatives	10,572	14,040	4.5	4.4

Continued on next page.

Table 388.-- INCOME AND POVERTY STATUS IN PREVIOUS YEAR: 1970 AND 1980 -- Con.

Subject	1970	1980	Percent	
			1970	1980
INCOME IN PREVIOUS YEAR BELOW POVERTY LEVEL 2/ -- Con.				
Unrelated individuals for whom poverty status is determined	16,834	24,775	30.3	23.0
65 years and over	4,561	4,927	50.1	31.7

1/ 14 years and over in 1970.

2/ Percent columns show percent below poverty level for specified groups. Data are based on U.S. poverty thresholds. Thresholds in Hawaii are about 15 percent higher; these statistics accordingly understate the number of persons in Hawaii below the poverty level.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-13C (July 1983), table 61.

Table 389.-- MEDIAN ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1970 TO 1983

[In dollars. Excludes persons in institutions or military barracks, in Kalawao, or on Niihau. Data refer to money income during previous 12 months of families and unrelated individuals surveyed during calendar year]

Year 1/	Families 2/			Unrelated individuals
	Total	Military	Civilian	
1970	9,959	7,952	10,817	4,434
1971	11,520	6,907	12,426	5,766
1972	12,348	8,924	13,024	5,848
1973	12,901	9,785	13,476	5,789
1974	13,603	9,993	14,108	5,339
1975	14,228	11,840	14,727	6,305
1976 3/	15,648	12,228	16,311	7,069
1977	16,689	11,929	17,732	7,946
1978	17,726	13,232	18,510	8,220
1979	18,773	13,289	19,724	9,324
1980	18,655	13,121	19,597	9,618
1981	22,064	15,626	23,353	10,811
1982	23,864	18,049	24,769	12,084
1983	24,798	17,992	26,105	12,112

1/ Year surveyed rather than year received.

2/ By military status of family head. Families not reporting military status, not shown separately, are included in the total.

3/ The question on income was asked only during the last six months of 1976.

Source: Hawaii State Department of Planning and Economic Development, Family Income in Hawaii, 1969 to 1979 (Statistical Report 142, December 31, 1980); Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulations.

Table 390.-- ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS: 1983

[Excludes persons in institutions, military barracks, Kalawao, or Niihau. Data refer to income during previous 12 months of families and individuals surveyed during 1983]

Annual money income before taxes	Families 1/			Unrelated individuals
	Total 2/	Military	Civilian	
All levels	258,316	31,613	226,686	77,963
Under $5,000	4,459	170	4,289	9,542
$5,000 to $9,999	20,718	2,296	18,422	15,368
$10,000 to $14,999	30,737	9,279	21,458	15,571
$15,000 to $19,999	28,390	5,122	23,267	8,022
$20,000 to $24,999	26,730	3,515	23,215	5,156
$25,000 to $29,999	23,456	3,134	20,322	3,433
$30,000 to $34,999	21,959	1,880	20,079	2,258
$35,000 to $39,999	18,285	1,562	16,723	755
$40,000 and over	45,172	2,663	42,509	2,871
Not reported	38,411	1,992	36,401	14,986
Median income (dollars)	24,798	17,992	26,105	12,112

1/ By military status of family head.

2/ Includes families with military status not reported.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 391.-- MEDIAN ANNUAL MONEY INCOME OF FAMILIES AND UNRELATED INDIVIDUALS, BY ETHNIC STOCK: 1983

[Excludes persons in institutions or military barracks, on Niihau, or in Kalawao. Based on a sample survey of 3,987 families and 1,317 unrelated individuals]

Ethnic stock 1/	All families 2/		Civilian families 2/		Unrelated individuals	
	Number (1,000)	Median income ($1,000)	Number (1,000)	Median income ($1,000)	Number (1,000)	Median income ($1,000)
All groups	258.3	24.8	226.7	26.1	70.0	12.1
Unmixed:						
Caucasian	77.1	25.6	55.1	29.5	37.3	12.6
Japanese	67.2	30.5	67.0	30.5	14.6	13.1
Chinese	15.6	31.1	15.4	31.4	3.1	(B)
Filipino	27.7	22.4	26.3	22.4	4.0	9.0
Hawaiian	3.0	20.9	3.0	20.9	0.9	(B)
Korean	2.8	(B)	2.8	(B)	1.4	(B)
Black	5.7	14.4	1.0	(B)	1.5	(B)
Puerto Rican	2.2	(B)	1.8	(B)	0.5	(B)
Samoan	2.6	(B)	2.6	(B)	0.1	(B)
Other unmixed 3/ ...	2.5	(B)	2.3	(B)	1.3	(B)
Mixed:						
Part Hawaiian	35.7	20.1	35.1	19.9	8.5	12.4
Non Hawaiian	16.2	23.0	14.4	23.3	4.8	13.0

(B) Base figure too small for calculation of reliable median.

1/ Definitions used in this table differ from those in reports of the U.S. Bureau of the Census. Persons of mixed race are shown separately in this table but in 1980 census tabulations are assigned to one of the unmixed groups on the basis of self-identification or race of mother.

2/ By ethnic stock of family head.

3/ Includes persons not reporting ethnic stock.

Source: Hawaii State Department of Health, Hawaii Health Surveillance program, special tabulation.

Table 392.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980

[Based on nationwide poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the numbers of persons and families below the poverty level in Hawaii. Data refer to the poverty status in 1979 of families and persons surveyed in 1980]

Subject	Number
ALL INCOME LEVELS IN 1979	
Families	227,974
With Social Security income	46,679
Income above poverty level	44,324
With public assistance income	21,111
Income above poverty level	14,641
Householder worked in 1979	184,955
With related children under 18 years	133,683
With related children 5 to 17 years	104,173
Female householder, no husband present	28,514
Householder worked in 1979	18,012
With related children under 18 years	19,559
With related children under 6 years	8,724
Householder 65 years and over	29,316
Unrelated individuals	107,787
With Social Security income	16,566
Income above poverty level	11,411
With public assistance income	5,553
Income above poverty level	2,410
Worked in 1979	82,330
65 years and over	15,528
Persons	927,032
Related children under 18 years	269,853
Related children 5 to 17 years	193,769
60 years and over	110,719
65 years and over	72,917

Continued on next page.

Table 392.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980 -- Con.

Subject	Number
INCOME IN 1979 BELOW POVERTY LEVEL	
Families	17,700
Percent below poverty level	7.8
Mean income deficit	$2,914
Persons per family	3.78
With Social Security income	2,355
With public assistance income	6,470
Householder worked in 1979	8,656
With related children under 18 years	14,545
With related children 5 to 17 years	10,476
Female householder, no husband present	7,985
Householder worked in 1979	2,931
With related children under 18 years	7,330
With related children under 6 years	4,440
Householder 65 years and over	1,673
Unrelated individuals	24,775
Percent below poverty level	23.0
Mean income deficit	$2,042
With Social Security income	5,155
With public assistance income	3,143
Worked in 1979	11,333
65 years and over	4,927
Persons	91,618
Percent below poverty level	9.9
Related children under 18 years	35,103
Related children 5 to 17 years	22,639
60 years and over	9,920
65 years and over	7,654
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL	
Families	26,815
Percent below poverty level	11.8
Mean income deficit	$3,397
Persons per family	3.82
With Social Security income	3,947
With public assistance income	8,762
Householder worked in 1979	15,135

Continued on next page.

Table 392.-- POVERTY STATUS IN 1979 OF FAMILIES AND PERSONS: 1980 -- Con.

Subject	Number
Families -- con.:	
With related children under 18 years	21,739
With related children 5 to 17 years	15,498
Female householder, no husband present	10,137
Householder worked in 1979	4,214
With related children under 18 years	9,174
With related children under 6 years	5,281
Householder 65 years and over	2,847
INCOME IN 1979 BELOW 125 PERCENT OF POVERTY LEVEL -- Con.	
Unrelated individuals	30,725
Percent below poverty level	28.5
Mean income deficit	$2,494
With Social Security income	7,266
With public assistance income	3,828
Worked in 1979	14,760
65 years and over	6,774
Persons	133,214
Percent below poverty level	14.4
Related children under 18 years	51,969
Related children 5 to 17 years	33,233
60 years and over	14,819
65 years and over	11,646
INCOME IN 1979 BELOW SPECIFIED POVERTY LEVEL	
Percent of persons:	
Below 75 percent of poverty level	6.1
Below 150 percent of poverty level	19.0
Below 200 percent of poverty level	29.0

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 72.

Table 393.-- INCOME AND POVERTY STATUS IN 1979, BY COUNTIES: 1980

[Income and poverty status in 1979 of households, families and persons surveyed in 1980]

County	Median income in 1979 (dollars)		Per capita income in 1979 (dollars)	Income in 1979 below poverty level 1/	
	Households	Families		Percent of persons for whom poverty status is determined	Percent of families
The State ..	20,473	22,750	7,740	9.9	7.8
Hawaii	16,975	19,132	6,554	13.2	10.3
Honolulu	21,077	23,554	7,912	9.5	7.5
Kalawao	5,750	11,667	6,838	31.9	13.3
Kauai	19,066	20,882	7,022	8.9	6.9
Maui	20,237	22,579	7,818	9.6	7.6

1/ Based on Mainland poverty thresholds. Hawaii thresholds are approximately 15 percent higher than those in effect on the Mainland; these data accordingly understate the percent of persons and families below poverty level in Hawaii.

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 57.

Table 394.-- POVERTY INCOME GUIDELINES: FEBRUARY 27, 1984

[In dollars. These family income levels are poverty thresholds established by the U.S. Department of Health and Human Services, effective February 27, 1984, to determine eligibility for certain Federal programs for the poor. In earlier years, these guidelines were issued by the Community Services Administration]

Size of family unit	Poverty guideline
1	5,730
2	7,730
3	9,730
4 1/	11,730
5	13,730
6	15,730
7	17,730
8 2/	19,730

1/ Corresponding levels for four-person families elsewhere in the United States were $10,200 on the Mainland and $12,750 in Alaska.

2/ For larger families, add $2,000 for each additional member.

Source: Department of Health and Human Services, "Annual Revision of Poverty Income Guidelines," Federal Register, Vol. 49, No. 39 (February 27, 1984), pp. 7151-7152.

Table 395.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973

[Data are based on a sample of 228 families and single consumers, and are subject to relatively large standard errors. For more detailed breakdowns, see the Data Book 1981, table 286]

Item	Average amount (dollars)
Family income:	
Before taxes	15,665
After taxes	13,055
Expenditure categories	
Current consumption expenses, total	9,506.14
Food, total	1,916.09
Food at home	1,292.73
Food away from home	590.44
Meals as pay	32.93
Alcoholic beverages	129.93
Tobacco products and smoking supplies	102.22
Housing, total	3,182.03
Shelter, total	1,917.78
Rented dwellings	1,129.97
Owned dwellings	813.36
Other lodging, excluding vacation	28.45
Fuel and utilities,	256.40
Household operations, total	504.69
Telephone	200.56
Housekeeping and laundry supplies, total	153.06
Domestic and other household services	151.06
Housefurnishings and equipment	449.17
Clothing	590.48
Transportation, total	1,530.72
Vehicle purchases (net outlay)	578.97
Vehicle finance charges	110.52
Vehicle operations, total	758.61
Gasoline and fuels	317.03
Other	441.57
Other transportation	82.62
Health care, total	513.92
Health insurance	197.68
Expenses not covered by insurance	283.52
Nonprescription drugs and medical supplies	32.72

Continued on next page.

Table 395.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Current consumption expenditures (continued)	
Personal care	157.96
Recreation, total	834.15
Vacation and pleasure trips	372.57
Boats, aircraft, and wheel goods	25.68
Television	43.07
Pets, toys and games	46.33
All other recreation expenses	346.50
Reading	70.37
Education	142.50
Miscellaneous	272.33
Personal insurance, retirement, and pensions, total	1,325.37
Life, endowment, annuities and income insurance	437.01
Other personal insurance	12.78
Retirement and pensions	875.58
Gifts and contributions	451.82
Income and personal taxes	
Sources of income and personal taxes	
Money income before taxes	15,665.31
Wages and salaries, total	12,873.17
Money wages and salaries, civilians	12,064.09
Union dues	-47.08
Other occupational expenses	-29.23
Rent received as pay	27.36
Meals received as pay	32.93
Money wages and salaries, armed forces	685.82
Quarters and subsistence	139.27
Self-employment income	$683.73
Social security and railroad retirement	361.52
Government retirement, veteran's payments, and unemployment compensation	413.20
Estates, trusts, dividends, rental income, royalties, income from roomers and boarders, total	616.16
Rental income, royalties, income from roomers and boarders	150.31
Income from interest, dividends, estates and trusts	465.85
Income from all other sources, total	717.55
Welfare and public assistance	129.71
Private pensions	55.43
Regular contributions for support	74.72
Other income, including workers' compensation	457.68

Continued on next page.

Table 395.-- ANNUAL INCOME AND EXPENDITURE CHARACTERISTICS OF FAMILIES AND SINGLE CONSUMERS, FOR OAHU: 1972-1973 - Con.

Item	Average amount (dollars)
Sources of income and personal taxes (continued)	
Personal taxes, total	-2,610.60
Federal income taxes	-1,990.21
State and local income taxes	-595.92
Personal property and other personal taxes	-24.47
Other financial information	
Other money receipts	561.06
Net change in assets and liabilities 1/	1,109.14
Net change in assets	2,016.72
Net change in liabilities	907.58
Goods and services received without direct expense	99.09
Market value of financial assets	8,199.06
Mortgage principal paid on owned property	-526.71
Estimated market value of owned home 2/	23,725.95
Estimated monthly rental value of owned home 2/	140.14

1/ Data represent end-of-year values.

2/ Estimates made at the beginning of the survey year.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Consumer Expenditure Survey: Integrated Diary and Interview Survey Data, 1972-73. Total Expenditures and Income for the United States and Selected Areas, Bulletin 1992 (1978), table 15, pp. 120-125.

Table 396.-- TOP WEALTHHOLDERS: 1962 TO 1976

[Top wealthholders are defined as persons with a gross estate of $60,000 or more through 1972 and $120,000 or more in 1976. All figures are estimates based on estate tax returns. Money amounts are in millions of dollars]

Subject	Persons with a gross estate of $60,000 or more			Persons with a gross estate of $120,000 or more: 1976
	1962	1969	1972	
Number of top wealthholders	11,323	36,470	53,700	39,000
Total assets	1,908	6,327	7,866	7,436
Debts and mortgages 1/ .. Number ..	9,909	29,301	48,200	33,700
Amount ..	231	1,090	1,369	1,546
Net worth	1,677	5,236	6,497	5,890

1/ "Debts" in 1962.

Source: U.S. Internal Revenue Service, Statistics of Income - 1962, Personal Wealth (1967), pp. 55-56; Statistics of Income - 1969, Personal Wealth (1973), pp. 57-58; Statistics of Income - 1972, Personal Wealth Estimated from Estate Tax Returns (1976), table 33; and Statistics of Income Bulletin, Summer 1983, pp. 1-26.

Table 397.-- CHARACTERISTICS OF TOP WEALTHHOLDERS: 1976

[Top wealthholders are defined as persons with gross assets of $120,000 or more. All figures in this table are estimates based on estate tax returns. Money amounts are in millions of dollars]

Subject		Number or amount
Number of top wealthholders		39,000
Total assets		7,436
Debts and mortgages:	Number	33,700
	Amount	1,546
Net worth		5,890
Men:	Number	32,000
	Net worth	4,288
Women:	Number	7,100
	Net worth	1,603
Types of assets:		
Cash:	Number	36,200
	Amount	498
Corporate stock:	Number	24,700
	Amount	834
Bonds:	Number	14,400
	Amount	92
Life insurance equity:	Number	36,100
	Amount	208
Notes and mortgages:	Number	3,100
	Amount	166
Real estate:	Number	37,700
	Amount	4,191
Noncorporate business assets:	Number	6,300
	Amount	155
Other assets:	Number	38,400
	Amount	1,293
Millionaires as defined by:		
Total assets:	Number	500
	Amount	1,048
Net worth:	Number	400
	Amount	816

Source: U.S. Internal Revenue Service, "Trends in Personal Wealth, 1976-1981," SOI Bulletin, Summer 1983, pp. 1-26.

Table 398.-- MILLIONAIRES: 1976 TO 1981

Basis, source, and year	Number
Total assets (IRS):	
1976	500
Net worth (IRS):	
1976	400
National Wealth Survey (U.S. Trust Co. of N.Y.):	
1980	2,595
Adjusted gross income (IRS):	
1980	15
1981	15

Source: U.S. Internal Revenue Service, *Statistics of Income Bulletin*, Summer 1983, and *Statistics of Income, Individual Income Tax Returns* (annual); data from 1980 National Wealth Survey conducted by United States Trust Company of New York, cited in *American Demographics*, March 1984, p. 30.

Section 13

PRICES

This section presents indexes of consumer prices for Honolulu, average prices for selected foods, and a comparison of Honolulu family budgets with those in other metropolitan areas. Other statistics on prices are reported in Sections 16, 17, 18, 19, 21, and 23.

In October 1984, the Honolulu all-items consumer price index for all urban consumers stood at 287.4, with the 1967 level equal to 100. The index had increased 4.0 percent in the preceding 12 months, 36.5 percent since October 1979, and 97.5 percent since September 1974. Prices have risen most rapidly since 1967 for medical care (284.3 percent) fuel and other utilities (245.8 percent), and food away from home (up 231.5 percent), and least for apparel and upkeep (up 100.1 percent).

An "intermediate" budget for a four-person family living on Oahu was estimated at $31,893 as of the Autumn of 1981. This family budget was 26 percent higher than the corresponding urban United States average, and was first among the 25 American metropolitan areas surveyed. The "lower" budget was 33 percent above the national figure; the "higher" budget, 32 percent. Oahu-Mainland differentials in the intermediate budget were greatest for rents and personal income taxes and least for food away from home and automobile transportation. An "intermediate" budget for a retired couple in Honolulu came to $12,157 in the Autumn of 1981, 19 percent above the U.S. urban average.

The Honolulu consumer price index has been compiled by the United States Bureau of Labor Statistics since December 1963. This index measures the average change in prices of goods and services purchased by urban families and single persons living alone. Prices are expressed as a percent of the average levels reported in 1967, the base date. Current data for Honolulu and other cities are published in the Monthly Labor Review and CPI Detailed Report, issued monthly by BLS.

Important changes were made in the consumer price index at the beginning of 1978. The existing index, covering urban wage earner and clerical families and single persons living alone, had been based on spending patterns observed in a 1961 survey and had been issued at three-month intervals. This index was discontinued after June 1978. Beginning in February 1978, two new indexes were published, both based on the findings of a 1972-1973 survey and both issued at two-month intervals. The first of these new indexes covered the same population as the older index, that is, urban wage earner and clerical families and individuals; the second covered all urban consumers. The new indexes were linked to the existing index for December 1977 and, like the latter, expressed as a percent of the 1967 annual average. The index for all urban consumers was further modified in February 1983, when the basis for measuring homeowners' costs was substantially altered.

Comparisons of family budgets between Honolulu and various Mainland communities have been published by the U.S. Bureau of Labor Statistics through the Fall of 1981. Although discontinued by BLS after 1981, this comparison was subsequently updated by DPED. Budget costs for a retired couple have similarly been prepared by BLS for Honolulu and the Mainland, most recently as of 1981. Cost of living adjustments for Federal employees in Hawaii are based on Honolulu-Washington comparisons, compiled by the U.S. Office of Personnel Management at annual intervals.

In addition to these data, the Bureau of Labor Statistics until 1978 published monthly and annual data on average Honolulu prices for a wide variety of foods, and occasional data on a number of non-food items. The city food price series were suspended after June 1978 and since that time only unofficial estimates have been available.

No composite wholesale or producer price index, comparable to the all-items consumer price index, is available for Hawaii. Average wholesale prices of agricultural products are reported in Statistics of Hawaiian Agriculture, issued by the Hawaii Agricultural Reporting Service, and in various other publications of the State Department of Agriculture. Wholesale price statistics of other commodities are less readily available, and in most cases totally lacking.

Data on prices and living costs for the nation as a whole and other areas are summarized in Statistical Abstract of the United States: 1984, Section 16. Long-term trends for Hawaii are traced in Historical Statistics of Hawaii, Section 5.

Table 399.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), FOR HONOLULU: QUARTERLY, 1967 TO 1978

[Unrevised index for urban wage earners and clerical workers.
Annual average for 1967=100]

Year	Annual average	March	June	September	December
1967	100.0	98.9	99.7	100.6	101.8
1968	103.8	102.8	103.4	104.6	105.7
1969	108.5	107.2	108.2	109.6	111.0
1970	114.2	113.2	114.4	114.9	115.7
1971	118.9	116.7	118.5	121.2	121.1
1972	122.8	122.4	122.2	123.1	124.4
1973	128.3	126.0	127.5	129.6	132.8
1974	141.9	137.7	141.2	145.5	148.5
1975	155.0	151.9	154.3	157.6	159.8
1976	162.8	161.1	162.3	164.0	165.5
1977	171.0	168.3	170.5	173.4	174.9
1978 1/ ..	...	177.9	182.1	...	...

1/ The unrevised consumer price index was discontinued after June 1978. For the revised index, see the following table.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report (monthly) and Consumer Price Index-Pacific Cities and U.S. Average (monthly).

Table 400.-- CONSUMER PRICE INDEX (ALL ITEMS COMBINED), BY TYPE OF CONSUMER, FOR HONOLULU: BIMONTHLY, 1977 TO 1984

[1967 average = 100]

Type of consumer and year	Annual average	February	April	June	August	October	December
All urban consumers:							
1977	...	...	...	...	...	...	174.9
1978	184.1	178.0	181.4	183.9	185.6	188.8	191.3
1979	204.6	196.2	200.7	204.4	207.2	210.5	214.8
1980	228.5	220.9	227.4	227.5	230.1	234.6	236.1
1981	252.4	243.3	250.0	252.8	256.6	259.3	258.3
1982 1/	267.6	262.0	263.3	269.0	269.4	275.2	269.9
1983 2/	273.5	270.4	272.8	271.4	273.5	276.4	278.4
1984	284.8	280.7	283.2	284.7	286.0	287.4	289.8
Urban wage earners and clerical workers (revised):							
1977	...	...	...	...	...	...	174.9
1978	184.1	177.5	181.3	184.1	186.0	188.7	191.2
1979	204.5	196.0	200.0	203.6	207.2	211.1	215.5
1980	228.7	221.3	228.4	228.0	229.5	233.5	237.0
1981	252.8	243.5	250.2	253.8	256.6	259.1	259.3
1982 1/	268.1	263.0	264.2	268.9	269.5	274.7	271.0
1983	278.8	274.8	276.9	273.4	278.2	285.9	288.2
1984	291.3	284.3	289.0	290.9	293.6	294.5	297.6

1/ February-August revised.

2/ Revised measurement of homeowners' costs introduced in February.

Source: U.S. Bureau of Labor Statistics, San Francisco, Consumer Price Index - Pacific Cities and U.S. Average (monthly), as corrected.

Table 401.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1979 TO 1983

[Unless otherwise specified, 1967=100]

Group	1979	1980	1981	1982	1983
All items	204.6	228.5	252.4	267.6	273.5
Food and beverages	231.0	250.6	275.4	288.3	296.0
Food	239.8	259.9	285.8	298.8	306.7
Food at home	243.2	264.2	291.7	300.2	305.2
Cereals and bakery products	216.9	241.2	276.6	278.9	289.3
Meats, poultry, fish, and eggs	247.5	263.6	278.8	283.4	286.6
Meats, poultry, and fish	252.4	268.9	283.8	288.2	291.8
Dairy products	223.9	248.5	279.2	285.5	287.6
Fruits and vegetables	264.0	273.0	311.5	329.3	324.9
Other foods at home	259.0	294.8	331.1	344.5	358.4
Food away from home	236.1	254.4	277.8	299.7	314.1
Alcoholic beverages	155.5	171.4	186.8	200.0	206.0
Housing	192.7	216.6	240.3	255.0	257.5
Shelter	195.1	220.1	238.4	253.7	257.2
Renters' costs 1/	(NA)	(NA)	(NA)	(NA)	102.7
Rent, residential	187.3	206.1	224.8	240.7	253.0
Other renters' costs	216.6	250.6	288.2	338.5	382.9
Homeowners' costs 1/	(NA)	(NA)	(NA)	(NA)	100.6
Owners' equivalent rent 1/	(NA)	(NA)	(NA)	(NA)	100.6
Fuel and other utilities	209.0	243.1	339.1	352.3	339.9
Fuels	245.5	309.2	480.9	500.4	446.0
Fuel oil, coal, and bottled gas 2/	117.4	162.8	210.7	239.1	236.9
Gas (piped) and electricity	245.5	308.7	481.4	500.4	445.3
Household furnishings and operation	172.1	186.3	197.7	210.4	216.7
Apparel and upkeep	171.7	183.9	193.4	201.5	207.7
Apparel commodities	168.8	180.2	188.1	195.5	200.9
Men's and boys' apparel	164.9	177.8	190.0	197.2	201.1
Women's and girls' apparel	163.0	169.2	172.8	183.7	186.9
Footwear	171.1	182.0	188.4	187.4	190.9
Transportation	189.5	223.6	247.1	255.6	253.7
Private transportation	198.2	228.1	252.5	260.1	258.7
Public transportation	141.7	204.0	222.6	236.7	231.9
Medical care	238.7	258.6	289.4	324.3	357.6
Entertainment	187.5	201.5	224.8	246.7	257.6
Other goods and services	199.1	219.6	244.2	275.6	303.7
Personal care	205.9	228.5	246.5	276.4	284.9

Continued on next page.

Table 401.-- CONSUMER PRICE INDEX FOR ALL URBAN CONSUMERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1979 TO 1983 -- Con.

Group	1979	1980	1981	1982	1983
All items	204.6	228.5	252.4	267.6	273.5
Commodities	201.5	225.0	243.7	257.0	263.8
Food and beverages	231.0	250.6	275.4	288.3	296.0
Commodities less food and beverages ..	179.5	203.6	218.8	231.8	237.8
Nondurables less food and beverages	193.5	225.2	249.5	263.0	270.8
Durables	161.6	179.9	188.7	200.7	205.7
Services	211.0	235.7	267.0	284.9	289.5
Medical care services	247.7	268.8	301.1	338.7	375.1
Special indexes:					
All items less shelter	205.3	228.0	254.6	269.4	276.4
All items less medical care	202.2	226.2	249.7	263.9	268.5
All items less energy 3/	116.5	128.3	139.5	148.7	153.2
Energy 2/	117.7	156.8	205.5	207.8	192.3
Commodities less food	177.9	201.6	216.7	229.6	235.6
Nondurables less food	188.5	218.6	242.0	255.3	262.9
Nondurables	215.3	240.8	265.6	278.9	286.7
Services less rent of shelter	(NA)	(NA)	(NA)	(NA)	101.3
Services less medical care	203.6	228.1	258.8	274.6	276.3

NA Not available.
1/ December 1982=100.
2/ June 1978=100.
3/ December 1977=100.

Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January 1980, 1981, 1982, 1983, and 1984.

Table 402.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1979 TO 1983

[Unless otherwise specified, 1967=100]

Group	1979	1980	1981	1982	1983
All items	204.5	228.7	252.8	268.1	278.8
Food and beverages	230.7	252.1	278.6	292.4	300.3
Food	239.6	262.0	289.8	303.7	311.8
Food at home	242.2	266.8	295.9	306.6	312.4
Cereals and bakery products	215.0	238.1	274.5	273.7	281.7
Meats, poultry, fish, and eggs	251.0	268.5	286.5	298.5	302.7
Meats, poultry, and fish	256.2	274.1	292.2	304.4	309.1
Dairy products	223.7	248.2	279.3	285.6	287.8
Fruits and vegetables	252.7	277.1	317.0	330.2	327.5
Other foods at home	259.0	297.8	335.2	352.1	366.5
Food away from home	235.3	253.7	277.3	298.9	313.5
Alcoholic beverages	154.1	166.6	181.8	195.3	201.7
Housing	191.6	213.3	236.3	251.9	265.8
Shelter	192.4	213.6	230.2	246.8	266.1
Rent, residential	187.3	206.1	224.8	240.7	253.0
Other rental costs	218.4	253.6	292.4	343.5	391.4
Homeownership	192.0	213.5	228.8	244.8	265.4
Property taxes 1/	(NA)	(NA)	106.3	114.8	116.1
Fuel and other utilities	209.2	243.4	338.9	352.2	340.1
Fuels	245.9	309.3	479.2	499.0	445.5
Fuel oil, coal, and bottled gas 2/	117.7	164.5	213.3	241.5	239.3
Gas (piped) and electricity	245.9	308.9	479.4	498.8	444.9
Household furnishings and operation	178.8	195.9	206.6	219.6	226.8
Apparel and upkeep	169.2	193.5	201.8	208.1	214.6
Apparel commodities	165.5	190.5	196.8	201.9	207.5
Men's and boys' apparel	167.3	179.4	188.7	198.0	201.4
Women's and girls' apparel	142.6	149.5	153.0	159.4	162.1
Footwear	158.4	165.1	171.4	172.8	175.8
Transportation	189.6	223.6	248.4	255.8	253.3
Private transportation	198.0	229.1	255.0	261.7	259.4
Public transportation	141.8	204.7	223.3	237.5	232.7
Medical care	239.5	261.3	296.0	332.5	365.2
Entertainment	198.4	215.7	236.0	257.7	270.0
Other goods and services	197.0	214.4	238.8	269.7	299.4
Personal care	199.4	214.8	234.8	261.3	269.5

Continued on next page.

Table 402.-- CONSUMER PRICE INDEX FOR URBAN WAGE EARNERS AND CLERICAL WORKERS, BY EXPENDITURE CATEGORY AND COMMODITY AND SERVICE GROUP, FOR HONOLULU: ANNUAL AVERAGES, 1979 TO 1983 -- Con.

Group	1979	1980	1981	1982	1983
All items	204.5	228.7	252.8	268.1	278.8
Commodities	201.8	227.1	246.5	259.5	267.0
Food and beverages	230.7	252.1	278.6	292.4	300.3
Commodities less food and beverages	179.7	206.1	221.3	233.3	240.3
Nondurables less food and beverages	195.2	232.5	257.4	269.8	277.3
Durables	161.0	178.8	186.7	197.9	204.3
Services	210.0	232.4	264.0	283.0	299.0
Medical care services	250.1	273.3	310.4	350.0	385.9
Special indexes:					
All items less shelter	207.0	232.2	259.3	273.7	280.5
All items less medical care	202.1	226.2	249.8	264.0	273.8
All items less energy 3/	116.3	127.9	139.1	148.5	156.0
Energy 2/	118.5	158.4	204.1	205.5	191.1
Commodities less food	178.0	203.7	218.8	230.8	237.8
Nondurables less food	189.9	224.7	248.6	260.9	268.3
Nondurables	216.0	244.9	270.9	284.1	291.9
Services less rent	215.7	239.0	273.6	293.3	310.2
Services less medical care	202.4	224.3	254.8	271.5	285.3

NA Not available.
1/ January 1981=100.
2/ June 1978=100.
3/ December 1977=100.
Source: U.S. Bureau of Labor Statistics, CPI Detailed Report, January 1980, 1981, 1982, 1983, and 1984.

Table 403.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1983

[Percent of all items]

Group	CPI-U 1/	CPI-W 2/
All items	100.000	100.000
Food and beverages	21.243	21.526
Food	20.081	20.375
Food at home	13.428	14.261
Cereals and bakery products	1.576	1.791
Meats, poultry, fish, and eggs	4.735	5.211
Meats, poultry, and fish	4.510	4.987
Dairy products	1.409	1.405
Fruits and vegetables	2.232	2.098
Other foods at home	3.475	3.756
Food away from home	6.653	6.114
Alcoholic beverages	1.162	1.150
Housing	41.284	43.466
Shelter	27.882	31.204
Renters' costs	8.750	(NA)
Rent, residential	7.915	6.448
Other renters' costs	.835	.665
Homeownership	(NA)	24.091
Property taxes	(NA)	1.780
Homeowners' costs	18.096	(NA)
Owners' equivalent rent	17.835	(NA)
Fuel and other utilities	5.976	5.242
Fuels	4.316	3.803
Fuel oil, coal, and bottled gas	.064	.038
Fuel oil	.003	.000
Other fuels	.060	.036
Gas (piped) and electricity	4.252	3.765
Electricity	3.817	3.324
Utility (piped) gas	.436	.441
Household furnishings and operations	7.426	7.020
Apparel and upkeep	5.134	4.647
Apparel commodities	4.656	4.182
Men's and boys'	1.473	1.218
Women's and girls'	1.466	1.185
Footwear	.607	.503

Continued on next page.

Table 403.-- RELATIVE IMPORTANCE OF COMPONENTS IN THE CONSUMER PRICE INDEX FOR HONOLULU: DECEMBER 1983 -- Con.

Group	CPI-U 1/	CPI-W 2/
Transportation	16.501	16.735
Private	14.578	15.201
Motor fuel	4.774	5.129
Public	1.923	1.535
Medical care	6.092	5.394
Entertainment	4.620	3.837
Other goods and services	5.125	4.394
Personal care	1.713	1.536
All items	100.000	100.000
Commodities	48.332	57.413
Food and beverages	21.243	21.526
Commodities less food and beverages	27.089	35.887
Nondurables less food and beverages	17.396	16.826
Durables	9.693	19.061
Services	51.668	42.587
Medical care services	5.261	4.636
Special indexes:		
All items less shelter	72.118	68.796
All items less medical care	93.908	94.606
All items less energy	90.910	91.069
Energy	9.090	8.931
Commodities less food	28.251	37.038
Nondurables less food	18.558	17.977
Nondurables	38.640	38.352
Services less rent	(NA)	36.139
Services less rent of shelter	25.122	(NA)
Services less medical care	46.407	37.950

NA Not available.

1/ Consumer price index for all urban consumers.

2/ Consumer price index for urban wage earners and clerical workers.

Source: U.S. Bureau of Labor Statistics, printout.

Table 404.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 2, 1983 AND MAY 31, 1984

[See headnote to following table]

Item	Honolulu price (dollars)		Honolulu as percent of Mainland average 1/	
	1983	1984	1983	1984
Milk, homogenized, 1/2 gal.	1.49	1.49*	141	137
Eggs, Grade A, large, 1 doz.	1.19*	1.49*	163	186
Cheese, sharp, 10 oz.	2.79*	2.83	136	133
Margarine, 1 lb.	0.95	0.75	170	125
Bread, white, 24 oz. loaf	1.03*	0.79	175	136
Flour, 5 lb.	1.49*	0.89*	146	91
Cereal, Special K, 12 oz.	2.25	2.41	136	145
Sugar~~, 5 lb.~~	2.11	2.18	129	131
Instant coffee, 10 oz. jar	4.69	5.25	109	117
Beans, dry, 1 lb	0.75	0.87	170	178
Rice, 2 lb.	2.05	2.35	116	127
Mayonnaise, 1 qt.	1.55	1.69*	107	100
Peanut butter, 18 oz. jar	2.09	1.93*	134	127
Tuna, 6 1/2 oz. can	0.95	0.69*	110	88
Evaporated milk, 13 oz. can	0.65*	0.64	123	119
Cling peach halves, 29 oz. can	1.09	1.29	118	126
Pineapple, 20 oz. can	0.99	0.95	116	106
Ice cream, 1/2 gal.	1.99*	1.99*	144	131
Orange juice concentrate, 6 oz.	0.65	0.69	135	117
Broccoli spears, 10 oz. pkg.	0.79	1.05	120	157
Rump roast, boneless, 1 lb.	2.69	2.79*	123	126
Sirloin steak, bone in, 1 lb.	3.19	3.19	117	107
Ground beef, 1 lb.	1.49*	1.39	115	109
Pork loin chops, 1 lb.	2.79*	2.49	121	113
Ham, smoked, 1 lb.	1.59	1.49*	137	122
Bacon, 1 lb.	1.79*	2.39*	92	119
Wieners, all meat, 1 lb.	1.69	1.29*	104	77
Chicken, whole, 1 lb.	1.39	0.79	257	108
Potatoes, 5 lb.	1.89	2.95	175	212
Carrots, 1 lb.	0.39*	0.69	139	209
Cabbage, 1 lb.	0.20*	0.29*	80	138
Lettuce, 1 head	0.59	0.99	97	190
Bananas, 1 lb.	0.69*	0.69*	160	186
Tomatoes, 1 lb.	0.79	0.69	96	90
Oranges, 5 lb.	1.45*	2.45	104	100
Tax on above items	2.17	2.27	88	127

Footnotes and source on next page.

Table 404.-- RETAIL FOOD PRICES, BY ITEM, FOR HONOLULU AND MAINLAND CITIES: JUNE 2, 1983 AND MAY 31, 1984 -- Con.

* Special sale price.

1/ Mainland averages based on data for 19 Mainland cities surveyed. These averages exclude Anchorage and Honolulu, also surveyed.

Source: Honolulu Advertiser, June 24, 1983, p. D-1, and June 19, 1984.

Table 405.-- RETAIL FOOD PRICES, FOR HONOLULU AND MAINLAND CITIES: 1979 TO 1984

[June data for a "market basket" of 35 common food items surveyed in Honolulu and other U.S. cities. Data include sales taxes. This survey, organized by the Tampa Tribune, has included Honolulu since 1979]

Date of survey	Honolulu			All cities	
	Amount (dollars)	Rank	Percent of U.S. average 1/	Number surveyed	Average amount 1/ (dollars)
1979: June 14	46.91	2	120.3	22	38.98
1980: June 19	49.60	2	121.0	22	40.98
1981: June 11	57.18	1	131.1	21	43.63
1982: June 3	56.72	1	126.2	21	44.93
1983: June 2	56.33	1	128.0	21	44.01
1984: May 31	59.10	1	127.0	21	46.52

1/ Average excludes Honolulu and Anchorage, both included in number surveyed.

Source: Honolulu Advertiser, July 4, 1979, pp. A-1 and A-6; July 9, 1980, pp. A-1 and A-4; July 3, 1981, pp. A-1 and A-3; June 23, 1982, p. B-1; June 24, 1983, p. D-1; June 19, 1984, p. D-1.

Table 406.-- COMPARATIVE FAMILY BUDGETS FOR HONOLULU: 1972 TO 1982

Type of family and date	Cost of budget (dollars)			Percent of U.S. urban average		
	Lower budget	Inter-mediate budget	Higher budget	Lower budget	Inter-mediate budget	Higher budget
URBAN FAMILY OF FOUR PERSONS						
1972: Autumn	9,118	13,617	20,579	123	119	124
1973: Autumn	9,924	14,937	21,901	121	118	120
1974: Autumn	11,383	17,019	25,572	124	119	123
1975: Autumn	12,226	18,694	28,302	128	122	127
1976: Autumn	12,711	19,633	30,086	127	121	127
1977: Autumn	13,280	20,883	31,897	127	122	127
1978: Autumn	14,870	23,099	35,602	129	124	130
1979: Autumn	16,507	25,799	39,689	131	126	131
1980: Autumn	18,480	28,488	44,396	132	123	129
1981: Autumn	20,319	31,893	50,317	133	126	132
1982: Autumn 1/ .	21,534	34,032	53,793	135	128	135
RETIRED COUPLE						
1972: Autumn	3,927	5,633	8,717	114	113	113
1973: Autumn	4,221	6,038	8,844	112	112	110
1974: Autumn	4,801	6,796	9,918	114	112	111
1975: Autumn	5,168	7,339	10,726	115	114	112
1976: Autumn	5,397	7,691	11,318	115	114	113
1977: Autumn	5,711	8,107	11,882	114	113	111
1978: Autumn	6,357	8,987	13,085	115	115	113
1979: Autumn	7,040	9,972	14,508	117	116	115
1980: Autumn	7,776	10,979	15,889	117	116	114
1981: Autumn 2/ .	8,665	12,157	17,576	120	119	117

1/ Estimated. The official series on comparative family budgets was discontinued by the Bureau of Labor Statistics following the release of the 1981 data.

2/ Last year available. This series was discontinued following the release of the 1981 data.

Source: U.S. Bureau of Labor Statistics, *Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas* (release USDL: 82-139, April 16, 1982), *Three Budgets for a Retired Couple, Autumn 1981* (release USDL: 82-266, July 30, 1982), and corresponding BLS releases for earlier years; Hawaii State Department of Planning and Economic Development, *Comparative Family Budgets for Honolulu and the United States, 1967-1982* (Statistical Memorandum 83-3, April 7, 1983).

Table 407.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981

Item	Cost of budget (dollars)			Percent of urban U.S. average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	20,319	31,893	50,317	133	126	132
Total consumption	15,240	21,530	29,952	126	118	120
Food	6,108	7,626	9,708	134	131	132
At home	5,501	6,649	7,972	141	137	138
Away from home	607	977	1,736	93	100	110
Housing 2/	4,022	6,493	10,200	143	117	121
Shelter 3/	3,171	5,098	7,355	150	117	126
Renter costs 4/	3,171	3,991	5,836	150	146	136
Homeowner costs 5/	...	5,467	7,623	...	112	124
Housefurnishings and operations	851	1,395	2,499	121	116	110
Transportation 6/	1,288	2,421	3,220	98	102	105
Automobile owners	1,827	2,421	3,220	105	97	105
Clothing	1,042	1,432	2,010	111	107	103
Personal care	448	590	834	118	116	116
Medical care 7/	1,583	1,590	1,657	110	110	110
Other family consumption 8/	749	1,378	2,323	116	115	118
Other items 9/	716	1,137	1,966	115	111	114
Social security and disability payments	1,424	2,049	2,049	137	120	103
Personal income taxes	2,939	7,177	16,350	184	162	175

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked first in total budget costs at the higher and intermediate levels and second at the lower level (where Anchorage ranked first).

2/ Housing includes shelter, housefurnishings and household operations. The higher budget also includes an allowance for lodging away from Oahu.

3/ The average costs of shelter were weighted by the following proportions: lower budget, all families living in rented dwellings; intermediate budget, 25 percent in rented dwellings; higher budget, 15 percent renters.

4/ Includes average contract rent, heating fuel, gas, electricity, water, specified equipment, and insurance on household contents.

5/ Includes interest and principal payments plus taxes; insurance on house and contents; water, refuse disposal, heating fuel, gas, electricity, and specified equipment; and home repair and maintenance costs.

6/ Based on 65 percent of the lower budget families and all of the intermediate and higher budget families owning automobiles.

Continued on next page.

Table 407.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A FOUR-PERSON FAMILY ON OAHU: AUTUMN 1981 -- Con.

7/ Based on 30 percent of all families paying full cost of medical insurance 26 percent paying half cost, and 44 percent covered by noncontributory insurance plans (paid by employer).

8/ Includes reading, recreation, tobacco products, alcoholic beverages, education, and miscellaneous expenditures.

9/ Includes gifts and contributions, life insurance and occupational expenses.

Source: U.S. Bureau of Labor Statistics, Autumn 1981 Urban Family Budgets and Comparative Indexes for Selected Urban Areas (release USDL: 82-139, April 16, 1982).

Table 408.-- COMPARATIVE ANNUAL LIVING COSTS IN HONOLULU AND OTHER URBAN AREAS: 1984

[For a four-person higher-income suburban family. Indexes are calculated with costs in the median U.S. urban area equal to 100. Shown separately for the five costliest urban areas]

Rank	Total budget 1/			Goods and services 2/	
	Urban area	Cost (dollars)	Index	Urban area	Index
1	San Jose, CA	57,975	122.6	Anchorage, AK	121.5
2	Honolulu, HI	57,944	122.5	Honolulu, HI	115.3
3	San Francisco, CA ..	56,981	120.5	Washington, DC ...	109.6
4	Santa Barbara, CA ..	56,436	119.4	New York, NY	108.8
5	New York, NY	55,802	118.0	San Francisco, CA	106.2

1/ Calculated for 100 U.S. urban areas. Based on a standard of living requiring an income of $46,000 in the median urban area. Includes housing, transportation, goods and services, and taxes.

2/ Calculated for 60 U.S. urban areas. Based on a standard of living appropriate to a family with an income of $50,000 in the median urban area. Includes 120 specific goods and services priced at each location.

Source: Runzheimer and Company, Inc., Rochester, Wis., news releases dated May 30, 1984 (for total budgets) and August 21, 1984 (for goods and services).

Table 409.-- ANNUAL BUDGETS FOR THREE LEVELS OF LIVING FOR A RETIRED COUPLE ON OAHU: AUTUMN 1981

[For a retired husband, age 65 years or over and wife. Excludes personal income taxes]

Item	Cost of budget (dollars)			Percent of U.S urban average		
	Lower budget	Intermediate budget	Higher budget	Lower budget	Intermediate budget	Higher budget
Total budget 1/	8,665	12,157	17,576	120	119	117
Total family consumption	8,292	11,426	16,284	120	119	117
Food	3,003	3,890	4,962	138	134	136
At home	2,836	3,531	4,245	141	137	139
Away from home	167	359	717	95	109	123
Housing 2/	2,587	3,827	5,985	109	113	113
Shelter 2/	1,860	2,356	3,423	103	107	110
Renter costs 2/	2,383	3,293	4,520	147	155	140
Homeowner costs 2/	1,512	1,851	2,953	79	83	97
Housefurnishings, operations	727	1,471	2,396	126	123	118
Transportation 2/	782	1,293	2,001	141	121	102
Clothing	260	428	615	107	105	98
Personal care	222	323	473	112	111	112
Medical care	1,111	1,120	1,129	102	103	103
Other family consumption 2/	327	545	1,119	119	119	124
Other items 2/	373	731	1,292	120	119	116

1/ Among the 25 metropolitan areas for which separate indexes were reported, Honolulu ranked second at all three levels (Anchorage ranked first at all three levels).

2/ For details, see either the Data Book 1983, table 345, footnotes, or the original source.

Source: U.S. Department of Labor, Bureau of Labor Statistics, Three Budgets for a Retired Couple, Autumn 1981 (release, USDL: 82-266, July 30, 1982).

Table 410.-- COST OF LIVING INDEXES AND PAY DIFFERENTIALS FOR FEDERAL EMPLOYEES IN HAWAII RELATIVE TO WASHINGTON, D.C.: 1983

Allowance category 1/	Oahu	Kauai	Maui County	Hawaii
Indexes 2/				
Local retail:				
Private housing	121.7	114.6	120.9	113.1
Federal housing	105.0	106.7	113.4	104.6
Commissary, PX:				
Private housing	111.8	113.1	...	...
Federal housing	95.1	105.1	...	...
Allowance rates 3/				
Local retail:				
Private housing	22.5	15.0	20.0	12.5
Federal housing	5.0	7.5	12.5	0
Commissary, PX:				
Private housing	12.5	12.5	...	...
Federal housing	0	5.0	...	...

1/ Based on access to military commissary and exchange facilities and type of housing occupied. "Local retail" refers to Federal employees who purchase goods and services from private retail establishments; "commissary, PX," to Federal employees who have unlimited access to and who use military commissary and exchange facilities. "Private housing" refers to Federal employees who occupy housing units that are privately owned or rented; "Federal housing," to Federal employees who occupy units owned or leased by a Federal agency.

2/ Washington, D.C., living costs=100. Based on a survey of comparative costs for Federal employees in 1983.

3/ Authorized allowance rate, expressed as a percentage differential, effective October 2, 1983.

Source: U.S. Office of Personnel Management, "Nonforeign Area Cost-of-Living Allowances for Guam and the State of Hawaii and Post Differentials for Certain Pacific Islands," Federal Personnel Manual System, FPM Letter 591-47 (1983).

Section 14

ELECTIONS

This section presents data on election districts, registered voters, votes cast, campaign expenditures, elected officials, and legislative bills and resolutions.

About 419,000 persons were registered to vote in the general election of November 6, 1984, and more than 349,000 actually voted. The number voting amounted to 46 percent of the 755,000 Hawaii residents of voting age at that time. The latter figure included aliens, inmates of mental and penal institutions, and members of the armed forces and their dependents, groups that are either ineligible or unlikely to vote in Island elections. Among registered voters, females outnumbered males and Democrats were far more numerous than Republicans. Campaign expenditures for the 1982 primary and general elections (other than the presidential race) exceeded $10 million.

Hawaii has 2 Congressional, 25 Senatorial, 51 Representative, and 9 Councilmanic districts. It also contains 15 Soil Conservation districts, 28 active Neighborhood Board districts, and 276 election precincts.

Elective offices in Hawaii include the President and Vice President, 2 U.S. Senators, 2 U.S. Representatives, the Governor and Lieutenant Governor, 25 State Senators, 51 State Representatives, and various county officials. Persons of Hawaiian blood also vote for the Board of Trustees of the Office of Hawaiian Affairs. The minimum voting age for all races is 18 years.

The 1984 State Legislature, with 76 members, included 59 males, 32 persons under 40 years of age, 29 persons of Japanese ancestry, 14 persons born in places other than Hawaii, and 63 Democrats.

In its 1984 regular session, the State Legislature considered 4,555 bills; 312 were passed and 291 became law. The Legislature also considered 914 resolutions, of which 325 were adopted.

The official results of primary, general, and special elections are published by the Office of the Lieutenant Governor. Additional information is often available from the various County clerks. Earlier figures for Hawaii appear in Historical Statistics of Hawaii, Section 24. National statistics appear in the Statistical Abstract of the United States: 1984, Section 9.

Table 411.-- ELECTION DISTRICTS AND POPULARLY ELECTED OFFICIALS: NOVEMBER 1982 AND 1984

Office	Election districts		Officials to be elected 1/		Total elected officials, including holdover	
	1982	1984	1982	1984	1982	1984
Federal offices:						
President and Vice President	...	...	-	2	2	2
U.S. Senate	...	...	1	-	2	2
U.S. House of Representatives	2	2	2	2	2	2
State offices:						
Governor and Lt. Governor	...	...	2	-	2	2
State Senate	25	25	13	13	25	25
State House of Representatives	51	51	51	51	51	51
Board of Education	2	2	-	13	13	13
Office of Hawaiian Affairs	...	...	7	4	9	9
Soil and water conservation dist. 2/	15	15	...	...	45	45
County offices:						
Mayor	...	...	2	3	4	4
Council:						
Hawaii	...	...	-	9	9	9
Maui	...	...	-	9	9	9
Honolulu	9	9	9	-	9	9
Kauai	...	...	7	7	7	7
Prosecuting Attorney	...	...	-	3	3	3
Neighborhood Boards 3/	28	28	-	-	416	416

1/ Including vacancies to be filled.

2/ Three seats are elected and two are appointed for each district. Elections are an ongoing process.

3/ There are 28 active districts out of 33 areas. Elections are conducted every other year in odd-numbered years.

Source: Office of the Lieutenant Governor, October 9, 1984.

Table 412.-- APPORTIONMENT OF THE STATE LEGISLATURE, BY COUNTIES: 1973 TO 1984

[For earlier apportionments, see Historical Statistics of Hawaii, table 24.7, p. 606]

Legislative house, type of district, and apportionment date	State total	County of Hawaii	County of Maui	City and Co. of Honolulu	County of Kauai
HOUSE OF REPRESENTATIVES					
Full districts:					
1973 (eff. 1974)	51	5	4	39	3
1982	50	5	4	39	2
1984	49	5	4	38	2
Shared districts: 1/					
1973 (eff. 1974)	-	-	-	-	-
1982	1	-	-	1	1
1984	2	1	1	1	1
SENATE					
Full districts:					
1973 (eff. 1974)	25	3	2	19	1
1982	24	2	2	19	1
1984	23	2	2	18	1
Shared districts: 1/					
1973 (eff. 1974)	-	-	-	-	-
1982	1	-	1	1	-
1984	2	1	1	1	1

1/ So-called "canoe districts," which are located in more than one county.

Source: Report and Reapportionment Plan of the 1973 Legislative Reapportionment Commission (1973), p. 10; Honolulu Advertiser, July 10, 1982, pp. C-2 and 3; Honolulu Star-Bulletin, July 10, 1982, pp. B-4, 5 and 6; Office of the Lieutenant Governor, District and County Population and Ethnic Profiles 1984 State of Hawaii Election Districts (April 1984).

Table 413.-- POPULATION OF VOTING AGE AND PERCENT VOTING: 1960 TO 1984

[As of November. Resident population 20 years old and over through 1970 and 18 years and over in 1972 and later years. Includes armed forces stationed in Hawaii]

Year	Persons of voting age	Percent casting votes		Sex and age	Persons of voting age
		For Presidential Electors	For U.S. Representatives		
1960 ..	371,000	49.7	49.2	Male, 1984	387,000
1962 ..	390,000	(X)	49.9	18 to 24 years	77,000
1964 ..	404,000	51.3	56.9	25 to 44 years	172,000
1966 ..	417,000	(X)	49.9	45 to 64 years	91,000
1968 ..	439,000	53.8	55.3	65 years and over .	47,000
1970 ..	473,000	(X)	44.0		
1972 ..	547,000	49.4	50.3	Female, 1984	368,000
1974 ..	586,000	(X)	44.3	18 to 24 years	61,000
1976 ..	624,000	46.7	47.0	25 to 44 years	164,000
1978 ..	657,000	(X)	38.6	45 to 64 years	96,000
1980 ..	696,000	43.6	40.3	65 years and over .	47,000
1982 1/	725,000	(X)	41.1		
1984 ..	755,000	...	...		

X Not applicable.

1/ Revised from Data Book 1983, table 348.

Source: U.S. Bureau of the Census, "Projections of the Population of Voting Age for States: November 1980," Current Population Reports, Series P-25, No. 879, March 1980; "Projections of the Population of Voting Age for States: November 1982," Current Population Reports, Series P-25, No. 916, July 1982; and "Projections of the Population of Voting Age for States: November 1984," Current Population Reports, Series P-25, No. 948, April 1984.

Table 414.-- PERCENT OF CIVILIAN POPULATION REGISTERED OR VOTING IN ELECTIONS: 1970 TO 1984

[Based on July 1 estimates of civilian population, including military dependents, aliens, and persons under 18 years of age]

Year	Primary elections		General elections		Special elections 1/	
	Registered	Voting	Registered	Voting	Registered	Voting
1970	39.1	28.0	40.4	34.3	...	...
1972	42.1	26.2	43.5	36.9	...	...
1974	41.2	29.2	42.4	33.7	...	...
1976	41.8	29.8	43.0	36.6	...	...
1978	44.5	33.2	45.4	33.6	39.6	13.7
1980	42.2	29.0	44.2	34.9	30.8	24.4
1982	40.9	29.0	43.0	34.6	36.4	24.2
1984 2/ .	40.7	22.7	42.8	35.7	30.1	21.9

1/ For delegates to the Constitutional Convention of 1978 and Board of Trustees of the Office of Hawaiian Affairs in 1980, 1982, and 1984. The ratios for the OHA elections are based on the estimated Hawaiian and Part Hawaiian population.

2/ Provisional.

Source: Calculated from Office of the Lieutenant Governor, Result of Votes Cast and printouts for each election, and population estimates in present report, section 1.

Table 415.-- PERCENT OF CIVILIAN NONINSTITUTIONAL POPULATION, 18 YEARS OLD AND OVER, REPORTED REGISTERED AND VOTED: NOVEMBER 1982

[Based on a sample. Excludes armed forces, inmates of institutions, and Hawaii voters currently living out of State]

Race	All persons 18 years old and over	Reported registered		Reported voted	
		Percent	Standard error	Percent	Standard error
All races 1/ ..	660,000	60.6	1.7	54.3	1.7
White	203,000	64.9	3.0	59.3	3.1
Nonwhite 2/	457,000	...	...	...	...

1/ For the United States as a whole, 64.1 ± 0.2 percent were reported registered, and 48.5 ± 0.2 percent were reported voted.

2/ Not separately reported in source.

Source: U.S. Bureau of the Census, "Voting and Registration in the Election of November 1982," Current Population Reports, Population Characteristics, Series P-20, No. 383, November 1983, p. 63.

Table 416.-- VOTING RESIDENCE OF MILITARY PERSONNEL AND DEPENDENTS: SEPTEMBER 1983

[Based on a survey of Air Force, Army, Coast Guard, Marine Corps, and Navy personnel and their dependents, stationed and living in Hawaii]

Group	Persons surveyed	Persons of voting age, declaring Hawaii as their State of residence	
		Number	Percent
Military personnel and dependents	107,611	2,866	2.66
Active-duty personnel	59,090	1,923	3.25
Aboard ship	10,319	218	2.11
Housed on-base 1/	34,441	824	2.39
Housed off-base	14,312	880	6.15
No data	18	1	5.56
Dependents	48,521	943	1.94
Less than 18 years old	25,622	-	0
18 years and older	22,899	943	4.12
Housed on-base	16,476	446	2.71
Housed off-base	6,423	497	7.74

1/ Includes shipboard personnel housed ashore.

Source: Unpublished data from survey conducted by James E. Dannemiller, SMS Research, Inc., for the Office of the Lieutenant Governor.

Table 417.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY, GENERAL, AND SPECIAL ELECTIONS: 1970 TO 1984

Type and date of election	Registered voters 1/			Votes cast 2/	
	Both sexes	Male	Female	Number	Percent of reg. voters
Primary elections:					
1970: Oct. 3	282,470	(NA)	(NA)	202,401	71.7
1972: Oct. 7	326,906	(NA)	(NA)	203,160	62.1
1974: Oct. 5	333,527	(NA)	(NA)	235,982	70.8
1976: Oct. 2	353,249	175,276	177,973	251,457	71.2
1978: Oct. 7	387,673	190,796	196,877	289,029	74.6
1980: Sept. 20 ...	384,858	186,982	197,876	264,041	68.6
1982: Sept. 18 ...	385,307	185,763	199,544	272,691	70.8
1984: Sept. 22 ...	398,858	190,525	208,333	221,957	55.6
General elections:					
1970: Nov. 3	291,681	146,630	145,051	247,740	84.9
1972: Nov. 7	337,837	169,896	167,941	286,593	84.8
1974: Nov. 5	343,404	171,072	172,332	272,545	79.4
1976: Nov. 2	363,045	180,265	182,780	309,025	85.1
1978: Nov. 7	395,262	194,412	200,850	292,690	74.0
1980: Nov. 4	402,795	195,804	206,991	318,026	79.0
1982: Nov. 2	405,005	195,259	209,746	325,459	80.4
1984: Nov. 6	418,904	200,424	218,480	349,253	83.4
Special elections: 3/					
1978: May 20	344,952	169,787	175,165	119,250	34.6
1980: Nov. 4	54,083	24,465	29,618	42,848	79.2
1982: Nov. 2	63,950	29,078	34,872	42,390	66.3
1984: Nov. 6	59,204	26,135	33,069	43,064	72.7

NA Not available.

1/ Data by sex not available for primary elections before 1976.

2/ Number voting excludes unregistered votes cast (overseas and nonresident).

3/ Constitutional convention of 1978; Office of Hawaiian Affairs, 1980, 1982, and 1984.

Source: Office of the Lieutenant Governor, Result of Votes Cast for each election, and records.

Table 418.-- REGISTERED VOTERS AND VOTES CAST IN PRIMARY AND GENERAL ELECTIONS, BY COUNTIES: 1984

[Excludes persons registered for only the Office of Hawaiian Affairs election but not for the regular primary or general elections]

Election and county	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
PRIMARY ELECTION					
State total ..	398,858	190,525	208,333	221,957	55.6
Hawaii	49,077	23,571	25,506	34,545	70.4
Maui	34,880	16,759	18,121	15,905	45.6
Honolulu	292,201	139,026	153,175	153,267	52.5
Kauai	22,700	11,169	11,531	18,232	80.3
Overseas	-	-	-	8	...
GENERAL ELECTION					
State total ..	418,904	200,424	218,480	349,253	83.4
Hawaii	50,563	24,332	26,231	41,396	81.9
Maui	36,660	17,654	19,006	29,651	80.9
Honolulu	308,423	146,979	161,444	258,811	83.9
Kauai	23,258	11,459	11,799	19,395	83.4

Source: Office of the Lieutenant Governor, *Results of Votes Cast, Primary Election, Saturday, September 22, 1984, State of Hawaii*, pp. 11, 142, and 161, and *Results of Votes Cast, General Election, Tuesday, November 6, 1984, Statewide Summary Report*, pp. 20, and 253.

Table 419.-- AGE AND SEX OF REGISTERED VOTERS: NOVEMBER 6, 1984

[Includes persons registered for either the regular election, OHA election, or both]

Age	Both sexes		Male	Female
	Number	Percent		
All ages	419,592	100.0	200,780	218,812
18 or 19 years	10,656	2.5	4,692	5,964
20 to 29 years	79,675	19.0	35,462	44,213
30 to 39 years	95,909	22.9	44,814	51,095
40 to 49 years	68,832	16.4	33,113	35,719
50 to 64 years	101,430	24.2	49,152	52,278
65 years and over	63,034	15.0	33,533	29,501
Not reported	56	0.0	14	42
Median age (years) ...	43.4	(X)	44.7	42.3

X Not applicable.
Source: Office of the Lieutenant Governor, printout dated November 15, 1984.

Table 420.-- RACE AND SEX OF REGISTERED VOTERS: OCTOBER 1982

[Race inferred from surname]

Race	Both sexes	Male	Female
All registered voters	404,773	195,170	209,603
Caucasian, except Portuguese ..	122,940	58,491	64,449
Chinese or Korean	38,665	19,080	19,585
Filipino	40,878	19,986	20,892
Japanese	121,969	59,844	62,125
Polynesian	22,535	10,628	11,907
Portuguese	28,698	13,727	14,971
Not available	29,088	13,414	15,674

Source: Voter Contact Services, records. Quoted with permission.

Table 421.-- PARTY OF VOTES CAST IN PRIMARY ELECTIONS: 1970 TO 1984

Primary election	Total votes cast	Democratic	Republican	Other parties	Nonpartisan	Invalidated
1970 1/ ..	202,401	159,135	43,253	-	13	-
1972 2/ ..	203,160	...	...	...	...	...
1974	235,982	199,992	35,867	123	-	-
1976	251,457	215,037	35,495	568	357	-
1978 3/ ..	289,029	262,531	25,642	211	548	-
1980	264,041	250,226	10,628	1,089	1,881	217
1982	272,691	245,426	13,262	12,681	1,013	309
1984	221,957	177,102	43,306	695	455	399

1/ Earliest year available.
2/ Not tabulated by party.
3/ Party data add to 288,932 rather than reported total.
Source: Office of the Lieutenant Governor, Result of Votes Cast, Primary Election for years shown, and records.

Table 422.-- PARTY OF VOTES CAST IN PRIMARY ELECTION, BY COUNTIES: SEPTEMBER 22, 1984

Party	State total 1/	Hawaii County	Maui County	City and County of Honolulu	Kauai County
Total votes cast	221,957	34,545	15,905	153,267	18,232
Democratic	177,102	32,179	12,256	115,060	17,600
Libertarian	695	63	71	548	13
Republican	43,306	2,269	3,527	36,934	575
Nonpartisan	455	-	-	441	14
Invalidated	399	34	51	284	30

1/ Includes 8 overseas votes (7 Democratic and 1 Republican), not listed separately.
Source: Office of the Lieutenant Governor, records.

Table 423.-- CAMPAIGN EXPENDITURES: 1982 ELECTIONS

[Dollars]

Election and race	All candidates	Democrats	Republicans	Independent Democrats	All others 1/
PRIMARY 2/					
All races reported ..	6,389,437	4,887,923	1,092,873	387,100	21,541
U.S. Senator	237,391	236,913	478	-	-
U.S. Representative	117,113	117,113	-	-	-
Governor	2,571,227	1,737,044	500,920	333,213	(Z)
Lieutenant Governor	886,175	697,801	134,487	53,887	-
State Senator	539,323	422,602	116,196	-	525
State Representative	1,096,161	879,952	197,799	-	18,410
Mayor	232,238	201,626	30,612	-	-
County Council	709,809	594,872	112,381	-	2,556
GENERAL 3/					
All races reported ..	3,310,659	1,992,382	928,311	294,747	95,219
U.S. Senator	127,787	127,787	-	-	-
U.S. Representative	57,558	57,558	-	-	-
Governor	1,469,373	969,642	284,000	215,731	-
Lieutenant Governor	291,807	113,456	99,335	79,016	-
State Senator	280,874	171,813	109,061	-	-
State Representative	379,555	214,797	153,408	-	11,350
Mayor	174,012	78,041	95,971	-	-
County Council	458,590	259,288	186,536	-	12,766
Office of Hawaiian Affairs	71,103	-	-	-	71,103
TOTAL 4/					
All races reported ..	10,383,156	7,302,945	2,266,548	693,737	119,926
U.S. Senator	384,651	384,173	(Z)	-	-
U.S. Representative	182,122	182,122	-	-	-
Governor	4,162,841	2,808,340	799,408	555,043	(Z)
Lieutenant Governor	1,370,648	849,911	382,043	138,694	-
State Senator	905,857	647,107	258,225	-	525
State Representative	1,602,785	1,195,858	377,047	-	29,880
Mayor	462,744	312,656	150,088	-	-
County Council	1,237,781	922,778	299,259	-	15,744
Office of Hawaiian Affairs	73,727	-	-	-	73,727

Footnotes and source on next page.

Table 423.-- CAMPAIGN EXPENDITURES: 1982 ELECTIONS -- Con.

Z Less than $500.

1/ Libertarian or nonpartisan.

2/ Expenditures from January 1, 1982, through election day, September 18, 1982.

3/ Expenditures from January 1, 1982, through election day, November 2, 1982.

4/ Total includes primary and general expenditures, and supplemental expenditures made after election days through December 31, 1982.

Source: State Campaign Spending Commission, records.

Table 424.-- NUMBER OF PRECINCTS, 1982 AND 1984, AND REGISTERED VOTERS, 1984, BY ISLANDS

Island	Number of precincts		Registered voters: general election, 1984	Voters per precinct, 1984
	1982	1984		
State total	299	276	418,904	1,518
Hawaii	54	50	50,563	1,011
Maui	31	30	32,719	1,091
Lanai	1	1	905	905
Molokai:				
Molokai District	4	4	2,927	732
Kalawao District	1	1	109	109
Oahu 1/	190	172	308,423	1,793
Kauai	17	17	23,127	1,360
Niihau	1	1	131	131

1/ Including the Northwestern Hawaiian Islands, part of the 5th Precinct of the 20th Representative District, in Waimanalo, Oahu.

Source: Office of the Lieutenant Governor, records.

Table 425.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 22, 1984

Office, party and candidate	Votes
REPRESENTATIVE TO CONGRESS, DISTRICT 1	
Democrat:	
Cecil Heftel	65,460
Republican:	
William F. Beard	13,915
Libertarian:	
Christopher Winter	266
REPRESENTATIVE TO CONGRESS, DISTRICT 2	
Democrat:	
Daniel Akaka	80,859
Pamela Washburn	11,070
Republican:	
A. D. Shipley	11,018
Libertarian:	
Amelia Fritts	204
MAYOR, CITY AND COUNTY OF HONOLULU	
Democrat:	
Eileen Anderson	82,234
Robert Dye	23,893
John Paul Fritz	3,067
Republican:	
Frank Fasi	32,125
Libertarian:	
Blase Harris	411
Nonpartisan:	
William Gomes	344
PROSECUTING ATTORNEY, HONOLULU	
Democrat:	
Erick Moon	67,806
Republican:	
Charles Marsland	30,761

Continued on next page.

Table 425.-- VOTES CAST FOR CANDIDATES FOR MAJOR OFFICES: PRIMARY ELECTION, SEPTEMBER 22, 1984 -- Con.

Office, party and candidate	Votes
MAYOR, COUNTY OF HAWAII	
Democratic:	
Dante Carpenter	20,017
Helene Hale	10,644
Paul Snider	436
Republican:	
Paul Geiger	801
Alexander Y. Ikeda	483
Abel J. Ferreira	460
MAYOR, COUNTY OF KAUAI	
Democratic:	
Tony Kunimura	7,719
Jeremy Harris	7,003
Roy K. Hiram	2,585
Republican:	
Edward Sarita	511
John Sousa	41

Source: Office of the Lieutenant Governor, Primary Election -- State of Hawaii -- Statewide, Final Report (Report Number 5, September 25, 1984).

Table 426.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1984

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
PRESIDENT						
1976	291,301	Carter	147,375	Ford	140,003	3,923
1980	303,287	Carter	135,879	Reagan	130,112	37,296
1984	335,846	Mondale	147,154	Reagan	185,050	3,642
U.S. SENATOR						
1974	250,221	Inouye, D. ..	207,454	None	-	42,767
1976	302,092	Matsunaga ...	162,305	Quinn	122,724	17,063
1980	288,006	Inouye, D. ..	224,485	Brown	53,068	10,453
1982	306,410	Matsunaga ...	245,386	Brown	52,071	8,953
REPRESENTATIVE TO CONGRESS, DISTRICT 1						
1974	120,617	Matsunaga ...	71,552	Paul	49,065	-
1976	137,602	Heftel	60,050	Rohlfing ...	53,745	23,807
1978	115,412	Heftel	84,552	Spillane ...	24,470	6,390
1980	123,181	Heftel	98,256	Noble	19,819	5,106
1982	149,907	Heftel	134,779	None	-	15,128
1984	138,865	Heftel	114,884	Beard	20,608	3,373
REPRESENTATIVE TO CONGRESS, DISTRICT 2						
1974	138,810	Mink	86,916	Coray	51,894	-
1976	156,099	Akaka	124,116	Inouye, H. .	23,917	8,066
1978	137,957	Akaka	118,272	Isaak	15,697	3,988
1980	157,380	Akaka	141,477	None	-	15,903
1982	148,008	Akaka	132,072	None	-	15,936
1984	136,741	Akaka	112,377	Shipley	20,000	4,364
GOVERNOR						
1974	249,650	Ariyoshi ...	136,262	Crossley ...	113,388	-
1978	281,587	Ariyoshi ...	153,394	Leopold	124,610	3,583
1982	312,853	Ariyoshi ...	141,043	Anderson ...	81,507	89,303

Continued on next page.

Table 426.-- VOTES CAST FOR MAJOR OFFICES: GENERAL ELECTIONS, 1974 TO 1984 -- Con.

Office and election year	Total votes cast	Democrat		Republican		Other parties: votes
		Candidate	Votes	Candidate	Votes	
MAYOR OF HONOLULU						
1976	224,665	Fasi	137,911	Clement	82,595	4,159
1980	219,408	Anderson, E.	152,240	Schweigert .	58,155	9,013
1984	253,853	Anderson, E.	117,841	Fasi	132,875	3,137

Source: Office of the Lieutenant Governor, Result of Votes Cast, General Election, State of Hawaii for 1974-1984.

Table 427.-- NEIGHBORHOOD BOARD ELECTIONS, FOR OAHU: 1975 TO 1983

[The first neighborhood board was formed May 1975]

Year	Number of boards		Board seats elected	Ballots mailed	Voters (ballots cast)	Votes cast 1/
	In operation, Dec. 31	Holding elections				
1975	6	6	110	...	1,767	5,702
1976 2/ ..	12	8	118	...	24,308	58,787
1977	27	22	316	...	11,333	34,657
1978	28	3	48	...	10,967	26,156
1979 3/ ..	28	25	366	...	12,495	38,714
1981 4/ ..	28	28	416	294,735	48,745	178,042
1983	28	28	416	231,622	62,573	235,275

1/ 1976 total incomplete.
2/ One board held two elections in 1976.
3/ First use of mail-in ballots; 898 ballots cast and 2,555 votes cast.
4/ First simultaneous election, May 1, 1981; all mail-in ballots.
Source: Neighborhood Commission, City and County of Honolulu, records.

Table 428.-- VOTES CAST FOR MAJOR OFFICES, BY COUNTIES: GENERAL ELECTION, 1984

Office, candidate and party	State total 1/	County of Hawaii	County of Maui	City and County of Honolulu	County of Kauai
PRESIDENT					
Reagan (R)	185,050	20,707	14,720	140,258	9,249
Mondale (D)	147,154	17,866	12,966	107,404	8,862
Other candidates	3,642	570	381	2,470	221
REPRESENTATIVE TO CONGRESS, DISTRICT 1					
Heftel (D)	114,884	-	-	114,834	-
Beard (R)	20,608	-	-	20,572	-
Other candidates	3,373	-	-	3,369	-
REPRESENTATIVE TO CONGRESS, DISTRICT 2					
Akaka (D)	112,377	27,464	18,614	52,716	13,546
Shipley (R)	20,000	3,905	3,273	11,709	1,094
Other candidates	4,364	1,164	630	2,162	406
MAYOR, COUNTY OF HAWAII					
Carpenter (D)	31,084	31,084	-	-	-
Geiger (R)	7,177	7,177	-	-	-
MAYOR, CITY AND COUNTY OF HONOLULU					
Fasi (R)	132,875	-	-	132,875	-
Anderson (D)	117,841	-	-	117,841	-
Other candidates	3,137	-	-	3,137	-
MAYOR, COUNTY OF KAUAI					
Kunimura (D)	10,241	-	-	-	10,241
Sarita (R)	8,118	-	-	-	8,118

1/ Includes overseas voters, not shown separately.

Source: Office of the Lieutenant Governor, Results of Votes Cast, General Election, Thursday, November 6, 1984, Statewide Summary Report, pp. 3, 6, 7, 20, and 30.

Table 429.-- REGISTERED VOTERS AND VOTES CAST FOR THE BOARD OF TRUSTEES OF THE OFFICE OF HAWAIIAN AFFAIRS, BY COUNTIES: NOVEMBER 6, 1984

County	Registered voters			Votes cast	
	Both sexes	Male	Female	Number	Percent of reg. voters
State total 1/	59,204	26,135	33,069	43,064	72.7
Hawaii	8,434	3,714	4,720	6,483	76.9
Maui	6,237	2,849	3,388	4,615	74.0
Honolulu	41,154	17,997	23,157	29,333	71.2
Kauai	3,379	1,575	1,804	2,633	77.9

1/ Based on 1983 population estimates by race from the Hawaii Health Surveillance Program (shown in The State of Hawaii Data Book 1984, table 24), 30.1 percent of the Hawaiian and Part Hawaiian population registered for the OHA special election and 21.9 percent cast OHA ballots. Participation in this special election was limited to persons with Hawaiian blood, numbering approximately 196,805 -- including those ineligible because of age -- in 1983.

Source: Office of the Lieutenant Governor, printouts.

Table 430.-- PARTY MEMBERSHIP OF THE STATE LEGISLATURE: 1963 TO 1983

Regular session.	House of Representatives				Senate			
	Total	Demo-crats	Repub-licans	Vacant seats	Total	Demo-crats	Repub-licans	Vacant seats
1963 ..	51	40	11	-	25	15	10	-
1965 ..	51	39	12	-	25	16	9	-
1967 ..	51	39	12	-	25	15	10	-
1969 ..	51	38	12	1	25	17	8	-
1971 ..	51	34	17	-	25	16	8	1
1973 ..	51	35	16	-	25	17	8	-
1975 ..	51	35	16	-	25	18	7	-
1977 1/	51	41	10	-	25	18	7	-
1979 ..	51	42	9	-	25	18	7	-
1981 ..	51	39	12	-	25	17	8	-
1983 ..	51	43	8	-	25	20	5	-

1/ Forty Democrats and 11 Republicans were elected to the House of Representatives in the general election of November 1976. In January 1977, however, one Republican changed his affiliation to Democrat.

Source: Session Laws of Hawaii, 1963-1983.

Table 431.-- PARTY MEMBERSHIP OF COUNTY COUNCILS: 1982 AND 1984

[As of January]

County	Total seats	Democrats		Republicans		Other parties or vacant	
		1982	1984	1982	1984	1982	1984
All counties	34	27	29	7	5	-	-
Hawaii	9	7	8	2	1	-	-
Maui	9	7	8	2	1	-	-
Honolulu	9	7	7	2	2	-	-
Kauai	7	6	6	1	1	-	-

Source: The Chamber of Commerce of Hawaii, Who's Who in Government, State of Hawaii for 1981-1982 (pp. 27-34) and 1983-1984 (pp. 27-34).

Table 432.-- COMPOSITION OF THE 1984 HAWAII STATE LEGISLATURE

Subject	House of Representatives			Senate		
	Total	Democrats	Republicans	Total	Democrats	Republicans
All members	51	43	8	25	20	5
Island of residence:						
Hawaii	5	4	1	3	2	1
Maui	3	3	-	2	2	-
Lanai	-	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	40	33	7	19	15	4
Kauai	2	2	-	1	1	-
Niihau	-	-	-	-	-	-
Year born:						
1923 or earlier	2	2	-	3	2	1
1924 to 1933	14	10	4	6	3	3
1934 to 1943	10	8	2	9	8	1
1944 to 1953	19	18	1	7	7	-
1954 or later	6	5	1	-	-	-
Sex:						
Male	39	34	5	20	17	3
Female	12	9	3	5	3	2
Ethnic stock:						
Caucasian, except Portuguese	8	6	2	4	2	2
Chinese	4	3	1	2	2	-
Filipino	5	5	-	1	1	-
Japanese	17	16	1	12	10	2
Portuguese	2	1	1	1	-	1
Other (unmixed) 1/ ..	-	-	-	-	-	-
Mixed: Part-Hawaiian	10	9	1	5	5	-
Mixed: Non-Hawaiian .	5	3	2	-	-	-
Place of birth:						
Hawaii	39	34	5	23	19	4
Mainland U.S.	8	5	3	2	1	1
U.S. terr. or poss. .	-	-	-	-	-	-
Foreign country	4	4	-	-	-	-

1/ Hawaiian, Korean, Negro or Black, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, letter dated August 17, 1984.

Table 433.-- COMPOSITION OF THE HAWAII TERRITORIAL OR STATE LEGISLATURE: 1951, 1961, AND 1971 SESSIONS

Subject	House of Representatives			Senate		
	1951	1961	1971	1951	1961	1971 1/
All members	30	51	51	15	25	24
Island of residence:						
Hawaii	8	8	6	4	8	3
Maui	6	4	3	3	5	3
Lanai	-	1	1	-	-	-
Molokai	-	-	-	-	-	-
Oahu	12	35	38	6	10	17
Kauai	4	3	3	2	2	1
Niihau	-	-	-	-	-	-
Year born:						
1889 or earlier	2	-	-	2	1	-
1890 to 1899	6	1	-	7	3	-
1900 to 1909	7	6	2	4	4	1
1910 to 1919	13	12	8	2	13	7
1920 to 1929	2	32	20	-	4	11
1930 to 1939	-	-	16	-	-	4
1940 to 1949	-	-	5	-	-	1
1950 or later	-	-	-	-	-	-
Median year 2/	1908	1922	1928	1896	1913	1924
Sex:						
Male	27	49	48	13	25	23
Female	3	2	3	2	-	1
Ethnic stock:						
Caucasian, except Portuguese or Spanish	9	12	7	3	6	5
Chinese	2	4	4	1	1	4
Filipino	-	1	2	-	-	-
Japanese	9	22	27	3	14	11
Portuguese	2	4	2	5	-	-
Spanish	1	1	1	-	-	-
Other (unmixed) 3/	-	-	-	-	-	-
Mixed: Part Hawaiian .	7	6	5	3	4	4
Mixed: Non-Hawaiian ..	-	1	3	-	-	-

Continued on next page.

Table 433.-- COMPOSITION OF THE HAWAII TERRITORIAL OR STATE LEGISLATURE: 1951, 1961, AND 1971 SESSIONS -- Con.

Subject	House of Representatives			Senate		
	1951	1961	1971	1951	1961	1971 1/
Place of birth:						
Hawaii	22	42	44	12	20	19
Mainland U.S.	5	7	5	2	4	5
U.S. terr. or poss. ...	-	-	-	-	-	-
Foreign country	3	2	2	1	1	-

1/ One seat vacant due to death.

2/ Based on ungrouped data.

3/ Hawaiian, Korean, Negro or Black, Puerto Rican, Samoan, or other ethnic stock.

Source: Office of the Lieutenant Governor, records.

Table 434.-- LENGTH OF LEGISLATIVE SESSIONS: 1979 TO 1984

Year	Regular sessions		Special sessions	
	Date convened	Length 1/	Date convened	Length 1/
1979 2/	Jan. 17	94	None	-
1980	Jan. 16	104	None	-
1981	Jan. 21	100	June 22	6
1982	Jan. 20	99	May 5	2
1983	Jan. 19	94	Sept. 1	2
1984	Jan. 18	93	July 9	5

1/ Calendar days, including Saturdays, Sundays, holidays, and mandatory five-day recess required by Art. III, sec. 10, of the Hawaii Constitution. Figures for 1981-1983 revised from Data Book 1983, table 367.

2/ For earlier years, 1901-1978, see source.

Source: Legislative Reference Bureau, Hawaii Legislators' Handbook, 8th edition (March 1983), Appendix E, pp. 98-100, as corrected, and records.

Table 435.-- LEGISLATIVE BILLS AND RESOLUTIONS, BY DISPOSITION: 1982 TO 1984

Action	1982: regular	1983: regular	1984	
			Regular	Special
House bills:				
Carried over from previous year	1,747	-	1,439	-
Introduced	1,273	1,628	987	1
Enacted	207	189	203	1
Vetoed 1/	4	6	13	-
Became law 1/	203	183	187	1
Senate bills:				
Carried over from previous year	2,048	-	1,369	-
Introduced	863	1,491	760	1
Enacted	101	122	109	-
Vetoed 1/	8	4	4	-
Became law 1/	93	118	104	-
House resolutions:				
Offered	464	595	443	1
Adopted	283	302	183	1
House concurrent resolutions:				
Offered	177	203	151	-
Adopted	31	33	42	-
Senate resolutions:				
Offered	151	156	183	-
Adopted	98	65	91	-
Senate concurrent resolutions:				
Offered	91	119	137	-
Adopted	8	11	9	-

1/ Excludes bills which passed the Legislature, proposing amendments to the State Constitution. In the 1984 regular session, such legislation included H.B. 1213, H.B. 1947, H.B. 1948, and S.B. 2072.

Source: Legislative Reference Bureau, records.

Section 15

BANKING, INSURANCE, AND BUSINESS ENTERPRISE

Statistics in this section relate to banks and other financial institutions, stocks and bonds, insurance, fires, and business firms.

There were ten banks with 162 branches, eight savings and loan associations with 166 branches, four trust companies, and 78 industrial loan or small loan licensees with 209 branch offices in Hawaii as of December 31, 1983. Deposits in Island banks reached $7.0 billion in mid-1984, compared with $2.6 billion a decade earlier. Assets of savings and loan associations stood at $4.8 billion in mid-1984, more than three times their 1974 level. There were 144 credit unions with combined assets of $1.1 billion at the end of 1983.

Approximately 234,000 Hawaii residents held shares in U.S. public corporations or investment companies in 1983.

Life insurance in force in Hawaii at the end of 1982 amounted to $23 billion, more than twice the figure reported ten years earlier. For all 699 insurance companies doing business in the Islands, Hawaii premiums amounted to $796 million in 1982 and losses, claims, and benefits paid came to only $436 million. Oahu fire losses amounted to $11 million in fiscal 1983. Persons covered by the two major prepaid health insurance plans as of December 31, 1983, numbered 667,000, with membership dues of $335 million.

By mid-1984, more than 39,000 corporations and partnerships were registered to do business in Hawaii: 26,000 local ("domestic") corporations, 4,000 out-of-State ("foreign") corporations, and 9,000 partnerships. Business establishments with one or more employees in 1982 numbered 21,655; 98 had 250 or more employees. During fiscal 1984, 2,770 new local corporations were formed. Business receipts of corporations in 1981 exceeded $17 billion; business receipts of proprietorships in the same year amounted to $868 million. Hawaii's largest corporation, Amfac, Inc., reported 1982 sales of $2.25 billion.

Sources for statistics on these subjects include the Hawaii State Department of Commerce and Consumer Affairs (specifically its Bank Examination, Insurance, and Business Registration Divisions), the State Department of Taxation, the Honolulu Fire Department, the New York Stock Exchange, the Health Insurance Institute and two major local health insurance plans, the Hawaii Credit Union League, and the annual report on County Business Patterns issued by the U.S. Bureau of the Census. Historical Statistics of Hawaii, Sections 22 and 23, provides information for earlier periods. Comparable Mainland data appear in Sections 17 and 18 of Statistical Abstract of the United States: 1984.

Table 436.-- NUMBER OF BANKS AND OTHER FINANCIAL INSTITUTIONS, BY ISLANDS: DECEMBER 31, 1983

Island	Banks		Savings and loans		Industrial loan licensees		Trust companies	
	Firms	Branch offices	Associations	Branch offices	Firms	Branch offices	Firms	Branch offices
Total 1/	10	177	8	166	72	209	4	7
Hawaii	6	21	7	20	16	27	2	2
Maui	7	21	7	16	9	14	1	1
Lanai	1	1	2	2	-	-	-	-
Molokai	1	1	2	2	1	1	-	-
Oahu	8	120	8	115	66	158	4	4
Kauai	4	13	5	11	7	9	-	-
Niihau	-	-	-	-	-	-	-	-
Out of state 2/ ...	2	15	-	-	-	-	-	

1/ Includes out-of-state branches on other Pacific islands.

2/ Out-of-state branches of banks headquartered in Hawaii.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, information provided April 9, 1984.

Table 437.-- BANKS: 1974 TO 1984

Year	Number, June 30		Total assets, June 30 ($1,000)	Debits to demand deposits, cal. year ($1,000)	Bank clearings, cal. year ($1,000)
	Banks	Branch offices and facilities			
1974	8	164	2,875,085	38,495,103	21,219,856
1975	8	165	2,964,953	42,198,265	23,663,047
1976	8	168	3,207,161	44,908,514	27,173,406
1977	8	166	3,387,094	50,492,878	30,437,727
1978	8	171	4,003,656	58,264,541	34,104,261
1979	9	170	4,431,161	72,492,632	39,746,116
1980	9	173	5,099,835	84,336,851	42,719,522
1981	9	176	5,556,264	90,280,833	43,333,718
1982	10	179	6,373,192	89,384,383	42,811,992
1983	10	183	7,003,029	89,147,264	43,852,246
1984	10	184	7,909,905	(NA)	(NA)

Year	Deposits, June 30 ($1,000)			
	Total	Demand	Time	Government and other 1/
1974	2,573,664	819,177	1,074,603	679,883
1975	2,615,796	875,441	1,170,368	569,986
1976	2,883,238	880,902	1,326,326	676,010
1977	3,008,895	932,909	1,497,021	578,965
1978	3,601,380	1,099,932	1,664,932	836,517
1979	3,930,365	1,171,686	1,863,368	895,311
1980	4,524,532	1,259,679	2,098,238	1,166,615
1981	4,790,261	1,082,767	2,559,876	1,147,618
1982	5,458,604	1,031,492	2,933,285	1,493,827
1983	6,230,996	1,102,606	3,530,499	1,597,891
1984	7,013,394	1,730,353	3,477,183	1,805,858

NA Not available.

1/ Beginning 1981, includes foreign deposits.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, Comparative Statement of Condition of Banks (semi-annual) and records.

Table 438.-- SAVINGS AND LOAN ASSOCIATIONS: 1974 TO 1984

[As of June 30]

Year	Number		Assets ($1,000)	Deposits 1/ ($1,000)
	Associations	Branches, facilities, and agencies		
1974	11	82	1,474,175	1,146,587
1975	11	90	1,650,050	1,326,024
1976	11	107	1,923,501	1,608,434
1977	11	112	2,345,999	1,952,042
1978	10	115	2,876,344	2,211,889
1979	9	128	3,447,136	2,664,704
1980	8	139	3,896,380	2,901,379
1981	9	151	4,420,035	3,083,182
1982	8	155	4,596,314	3,259,147
1983	8	154	4,631,588	3,496,835
1984	8	157	4,782,952	3,757,861

1/ Withdrawable shares, withdrawable deposits, investment certificates, and NOW accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, Comparative Statement of Condition of Savings and Loan Associations (semi-annual) and records.

Table 439.-- TRUST COMPANIES AND LOAN LICENSEES: 1974 TO 1984

[As of June 30]

Year	Trust companies		Industrial loan licensees		Small loan licensees	
	Number	Assets ($1,000)	Number	Assets ($1,000)	Number	Assets ($1,000)
1974	3	41,181	225	680,286	24	653
1975	3	46,988	235	718,010	6	67
1976	3	53,365	239	797,883	6	32
1977	3	57,911	242	742,330	-	-
1978	3	59,862	238	776,687	-	-
1979	3	53,779	243	868,539	-	-
1980	4	70,156	249	982,858	-	-
1981	4	89,130	244	1,072,914	-	-
1982	4	121,526	238	1,144,724	-	-
1983	4	157,611	224	1,580,705	-	-
1984	4	47,384	218	1,212,579	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division, *Comparative Statement of Condition of Trust Companies* (semi-annual), *Industrial Loan Licensees Comparative Consolidated Statement of Condition* (semi-annual), and records.

Table 440.-- CONSUMER CREDIT OUTSTANDING AT BANKS: 1980 TO 1983

[Millions of dollars. As of December 31]

Type of credit	1980	1981	1982	1983
Total	799.8	806.5	821.6	854.1
Credit card and related plans ..	170.2	184.3	189.9	192.7
Automobile loans	222.8	216.9	218.8	239.2
Home improvement loans	75.5	84.0	82.4	71.1
Other installment loans	214.6	229.3	232.7	243.8
Single payment loans	116.7	92.0	97.8	107.4

Source: Bank of Hawaii Economics Department, records.

Table 441.-- CREDIT UNIONS: 1978 TO 1983

[As of December 31]

Year	Number of credit unions	Assets (dollars)	Shares (dollars)
1978	158	704,130,075	626,367,918
1979	159	755,417,266	667,505,910
1980	156	800,472,936	714,315,177
1981	152	826,741,896	741,883,222
1982	147	936,381,493	841,538,942
1983	144	1,085,367,118	983,903,868

Source: Hawaii Credit Union League, records.

Table 442.-- HAWAII RESIDENTS HOLDING SHARES IN U.S. PUBLIC CORPORATIONS OR INVESTMENT COMPANIES: 1959 TO 1983

[Individual shareholders of corporate stock or stock mutual funds]

Year	State total	Year	State total	Honolulu MSA
1959	13,000	1975	58,000	...
1962	18,000	1980	175,000	...
1965	39,000	1981	174,000	149,000
1970	74,000	1983	234,000	199,000

Source: New York Stock Exchange, Inc., Shareownership in America 1959 (p. 27), Shareownership U.S.A., 1965 Census of Shareowners (p. 22), Shareownership - 1970, Census of Shareowners (p. 20), Shareownership 1975 (p. 19), Shareownership 1980 (p. 19), Shareownership 1981 (p. 21), and Shareownership 1983 (p. 24); Honolulu Star-Bulletin, May 2, 1984, p. A-28.

Table 443.-- STOCKHOLDINGS OF HAWAII RESIDENTS IN SELECTED MAJOR HAWAII COMPANIES: 1982

[Includes individuals, corporations, trusts, and trust company nominee accounts which have Hawaii addresses-of-record. Only common stock is considered. Excludes shares owned by residents in any non-Hawaii-based broker's name. As of December 31, 1982 unless otherwise noted]

Company	Hawaii shareholders		Shares held in Hawaii		Market value of shares held in Hawaii 1/ (thousands of dollars)	Annual dividends to Hawaii shareholders 1/ (thousands of dollars)
	Number	Percent of company total	Number (thousands)	Percent of company total		
Alexander and Baldwin, Inc. 2/	3,727	51.8	3,979	43.3	128,820	7,162
Amfac, Inc.	3,813	35.8	2,850	19.1	74,100	4,104
Bancorp Hawaii, Inc. 3/	2,372	58.9	2,739	36.0	59,573	3,232
Castle and Cooke, Inc. 4/	4,633	16.4	2,975	10.6	26,403	1,190
Dillingham Corporation 5/	3,970	37.9	4,470	32.5	102,251	3,129
First Hawaiian, Inc.	1,337	62.6	2,139	63.7	60,962	5,134
Hawaiian Electric Co., Inc.	12,440	56.2	2,336	31.5	70,956	7,008
Maui Land and Pineapple Co., Inc.	194	22.8	1,592	88.4	46,168	589
Pacific Resources, Inc.	2,922	65.9	7,132	65.7	62,405	3,994

1/ Based on prices (last trade or bid) and dividend rates as of December 31, 1982.
2/ As of February 10, 1983.
3/ As of August 19, 1982.
4/ As of December 17, 1982.
5/ Became a private corporation on March 18, 1983.
Source: Compiled by the Hawaii State Department of Planning and Economic Development from data supplied by the companies listed.

Table 444.-- INSURANCE BUSINESS TRANSACTED IN HAWAII: 1972 TO 1982

[Includes data for all insurance companies, life or other, authorized in Hawaii]

Year	Number of companies authorized, Dec. 31	Premiums paid ($1,000)	Losses, claims and benefits paid ($1,000)	Cumulative net investments in Hawaii Dec. 31 1/ ($1,000)
1972	502	303,954	124,502	1,282,566
1973	517	316,897	132,102	1,354,145
1974	534	331,146	155,272	1,487,228
1975	537	380,480	170,561	1,634,549
1976	542	421,545	192,547	1,771,556
1977	546	488,437	225,675	1,944,507
1978	556	555,392	240,320	2,076,291
1979	579	617,571	280,598	2,234,252
1980	594	682,306	352,515	2,561,217
1981	640	755,298	352,523	2,565,525
1982	699	795,786	436,094	2,731,165

1/ Does not include balances in Hawaii banks.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual).

Table 445.-- LIFE INSURANCE BUSINESS TRANSACTED IN HAWAII: 1972 TO 1982

Year	Number of companies, 1/ Dec. 31	Insurance written 2/ ($1,000)	Insurance in force, Dec. 31 ($1,000)	Premiums ($1,000)	Losses, claims, and benefits paid ($1,000)
1972 ...	239	1,484,039	8,788,361	115,491	44,661
1973 ...	262	1,935,643	9,433,897	120,229	47,980
1974 ...	270	2,614,259	11,383,173	130,102	54,009
1975 ...	279	2,046,479	12,650,488	138,597	53,291
1976 ...	283	2,269,602	13,560,838	148,977	65,312
1977 ...	285	2,432,658	14,680,847	161,725	63,040
1978 ...	291	2,814,838	15,803,154	172,999	64,391
1979 ...	311	2,999,500	17,122,778	186,487	74,627
1980 ...	318	3,694,867	19,131,180	197,394	82,333
1981 ...	346	4,995,919	21,287,888	204,049	98,942
1982 ...	379	4,928,880	23,138,362	214,728	120,827

1/ Authorized in Hawaii, including fraternal benefit societies. Before 1973, limited to number transacting life insurance business during the year.

2/ Includes insurance revived, increased, or transferred.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii (annual), and records.

Table 446.-- INSURANCE PREMIUMS AND LOSSES PAID, BY CLASS OF INSURANCE: 1982

[Dollars]

Class of insurance	Premiums	Losses, claims, and benefits paid
All classes	795,785,567	436,093,993
Life 1/	213,572,166	120,623,199
Fraternal	1,156,195	204,168
Fire, marine, casualty, and miscell.:		
Accident and health	70,077,813	39,725,512
Fire	12,485,055	4,327,114
Allied lines 2/	5,035,736	14,106,048
Homeowners multiple peril	35,221,645	31,765,348
Commercial multiple peril	27,993,100	7,843,630
Private passenger auto no-fault	31,917,646	19,935,570
Other private passenger auto liability	82,926,224	44,151,454
Commercial auto no-fault	3,509,939	3,017,169
Other commercial auto liability	23,956,619	16,027,524
Private passenger auto physical damage	65,360,067	32,089,244
Commercial auto physical damage	9,679,165	4,723,721
Workers' compensation	133,846,210	66,478,292
Other liability	26,518,056	15,106,765
Medical malpractice	4,093,427	2,027,935
Glass	260,285	126,636
Burglary and theft	844,490	235,678
Boiler and machinery	1,629,062	1,847,919
Fidelity and surety	9,580,771	805,798
Ocean marine	4,618,616	3,200,267
Inland marine	8,145,260	3,414,659
Earthquake	349,601	-
All other 3/	9,592,610	1,787,778
Surplus lines	13,415,809	2,522,565

1/ Excludes annuities and $803,219 in premiums for insurance on nonresidents.

2/ Includes extended coverage; tornado, windstorm and hail; sprinkler and water damage; explosion, riot and civil commotion; growing crops; flood; rain; and damage from aircraft and vehicle.

3/ Aircraft (all risks); title, credit, mortgage guaranty; livestock; service fees, excess of loss.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii, 1983, p. 7.

Table 447.-- INSURANCE BUSINESS TRANSACTED IN HAWAII, BY LOCATION OF HOME OFFICE: 1982

[Money amounts in millions of dollars. For insurance companies authorized to do business in Hawaii]

Subject	All companies	Domestic companies 1/	Foreign companies 2/	Alien companies 3/ (U.S. business only)
Number of companies, Dec. 31	699	22	657	20
Financial condition, Dec. 31:				
Assets	694,128.9	952.0	681,919.6	11,257.3
Liabilities exc. capital and surplus	614,847.5	801.0	603,556.2	10,490.3
Policyholder's surplus inc. capital	79,281.5	151.0	78,363.4	767.1
Capital	2,631.8	19.3	2,584.1	28.4
Net gain or loss	-2,355.4	-36.9	-1,998.7	-319.8
Hawaii business:				
Direct premiums written	826.9	277.6	523.5	25.8
Claims and benefits paid	499.6	144.0	340.5	15.1
Investments in Hawaii, Dec. 31 4/ ...	2,731.2	167.6	2,536.6	26.9
Mortgage loans (principal indebtedness)	1,451.0	83.0	1,354.3	13.7
Collateral loans (amount lent)	-	-	-	-
State and county bonds 5/	246.5	17.6	228.7	0.1
Utilities stocks and bonds 5/	212.1	18.5	184.1	9.5
Industrial and misc. stocks and bonds 5/	609.1	34.2	571.4	3.6
Real estate 5/	212.5	14.4	198.1	-
Balances in Hawaii banks	24.0	22.1	1.9	0.0

1/ A domestic insurer is one formed under the laws of Hawaii.

2/ A foreign insurer is one formed under the laws of any State of the United States (including the District of Columbia and Commonwealth of Puerto Rico) other than Hawaii.

3/ An alien insurer is one formed under the laws of a nation other than the United States.

4/ Does not include balances in Hawaii banks.

5/ Market value less encumbrances for real estate.

Source: Hawaii State Department of Commerce and Consumer Affairs, Report of the Insurance Commissioner of Hawaii 1983, pp. 16, 18, 19, 38 and 39.

Table 448.-- HEALTH INSURANCE: 1980 TO 1982

Subject	1980	1981	1982
Protected population (thousands): 1/			
Hospital expense	767	(NA)	(NA)
Surgical expense	719	(NA)	(NA)
Physician's expense	676	(NA)	(NA)
Major medical expense	71	(NA)	(NA)
Health insurance benefit payments (millions of dollars), total	328	(NA)	(NA)
Insurance companies	48	(NA)	(NA)
Other hospital-medical plans	280	(NA)	(NA)
Health insurance premiums (millions of dollars), total	358	(NA)	(NA)
Insurance companies	62	(NA)	(NA)
Other hospital-medical plans	296	(NA)	(NA)
Community hospital costs:			
Average length of hospital stay (days)	7.5	7.9	8.3
Average cost (dollars):			
Per patient day	246	277	307
Per patient stay	1,844	2,187	2,551

NA Not available.

1/ Number of persons under age 65 protected by hospital, surgical, physician's expense, and major medical expense coverage, as of December 31 (unduplicated).

Source: Health Insurance Association of America, Source Book of Health Insurance Data for 1981-1982, 1982-1983, and 1982-1983 (1984 update).

Table 449.-- PREPAID HEALTH PLANS: 1973 TO 1983

Year	Hawaii Medical Service Association		Kaiser Foundation Health Plan			Commercial carrier premiums 1/ ($1,000)
	Persons covered, end of year 2/	Membership dues 3/ ($1,000)	Persons covered 2/		Membership dues ($1,000)	
			Annual average	End of year		
1973 ..	432,905	55,209	96,057	96,242	14,779	31,200
1974 ..	451,583	64,138	97,202	98,184	16,309	33,176
1975 ..	474,265	79,827	100,766	101,827	18,592	35,564
1976 ..	484,295	97,882	103,364	104,785	21,879	42,601
1977 ..	507,709	113,335	106,217	107,592	25,614	46,124
1978 ..	515,439	127,744	110,191	113,388	28,883	51,741
1979 ..	528,362	146,775	115,225	115,963	34,514	57,515
1980 ..	537,281	175,035	116,118	117,409	38,566	60,150
1981 ..	537,684	206,675	119,407	122,985	44,658	66,579
1982 ..	527,319	237,923	122,554	122,732	50,816	70,078
1983 ..	535,303	275,030	127,359	131,304	60,146	(NA)

NA Not available.

1/ For accident and health insurance.

2/ Subscribers and dependents, whether on a group or individual basis.

3/ Excludes investment income, membership fees, etc.

Source: Hawaii Medical Service Association, records; Kaiser Foundation Health Plan, Inc., records; Report of the Insurance Commissioner (annual).

Table 450.-- FIRE CHARACTERISTICS, FOR THE CITY AND COUNTY OF HONOLULU: 1973 TO 1983

[Years ended June 30]

Year	Fire alarms				Fire deaths	Fire losses (dollars)
	Total alarms	Fires	False alarms	Needless alarms 1/		
1973 ..	7,415	4,930	1,807	678	8	12,962,159
1974 ..	6,132	3,685	1,812	635	11	6,391,520
1975 ..	7,064	4,316	2,057	691	5	7,303,404
1976 ..	8,157	5,278	2,166	713	7	7,369,820
1977 ..	8,225	5,451	2,061	713	5	7,008,431
1978 ..	7,876	5,258	1,858	760	5	9,975,951
1979 ..	8,497	5,962	1,861	674	7	8,027,335
1980 ..	8,749	6,701	1,423	625	13	11,897,724
1981 ..	7,564	6,084	810	670	9	15,071,355
1982 ..	6,518	4,602	769	1,147	9	11,393,700
1983 ..	6,982	5,296	805	881	9	10,750,754

1/ Non-fire incidents, such as smoke scares or overheated food.

Source: Annual Report of the Fire Department, City and County of Honolulu (annual), and records.

Table 451.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS: 1973 TO 1982

[Data refer to establishments with taxable payrolls during the first quarter of the year. Coverage excludes government and self-employed workers]

Year	Number of employees 1/	Payroll ($1,000)		Number of establishments, by employment-size class		
		First quarter	Annual	Total	1 to 4	5 to 9
1973	236,606	444,491	1,885,174	16,298	(NA)	(NA)
1974 2/	248,859	478,032	2,081,578	16,957	9,045	3,249
1975	252,254	543,590	2,274,957	17,095	9,041	3,317
1976	252,252	577,390	2,412,122	17,271	9,135	3,359
1977	263,079	630,090	2,637,726	18,660	9,942	3,741
1978	282,256	699,638	2,966,228	19,222	9,849	3,991
1979	302,763	809,676	3,451,980	20,621	10,568	4,285
1980	314,106	930,312	3,849,636	21,125	10,928	4,346
1981 3/	312,195	984,003	4,092,561	21,264	10,969	4,337
1982	309,146	1,026,323	4,264,863	21,655	11,095	4,592

Year	Number of establishments by employment-size class -- Con.					
	10 to 19	20 to 49	50 to 99	100 to 249	250 to 499	500 or more
1973	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
1974	2,230	1,558	553	234	53	39
1975	2,305	1,546	565	226	56	39
1976	2,332	1,544	566	248	49	38
1977	2,397	1,642	589	257	52	40
1978	2,695	1,721	602	264	57	43
1979	2,866	1,864	653	281	54	50
1980	2,868	1,906	666	311	55	45
1981	2,973	1,905	663	309	63	45
1982	2,921	2,005	648	296	56	42

NA Not available.

1/ For week including March 12.

2/ Totals for number of employees, payroll, and total number of establishments are revised figures, but data on number of establishments by size are unrevised and add to 16,961 rather than 16,957.

3/ Revised from Data Book 1983, table 384.

Source: U.S. Bureau of the Census, County Business Patterns (annual).

Table 452.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY COUNTIES: 1981 AND 1982

[Excludes government employees and self-employed persons]

Year and county	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1981				
State total 1/ ...	21,264	312,195	984,003	4,092,561
Hawaii	2,156	23,821	71,915	296,870
Honolulu 1/	16,257	251,602	809,516	3,363,565
Kauai 1/	943	11,656	32,157	141,343
Maui	1,872	25,077	70,335	290,070
Statewide	36	39	81	715
1982				
State total	21,655	309,146	1,026,323	4,264,864
Hawaii	2,169	23,456	73,177	306,588
Honolulu	16,523	247,754	844,929	3,500,490
Kauai	971	11,996	35,522	148,230
Maui	1,988	25,904	72,560	309,100
Statewide	4	36	135	456

1/ Revised from Data Book 1983, table 385.

Source: U.S. Bureau of the Census, County Business Patterns, 1982, Hawaii, CBP-82-13 (October 1984), p. 17.

Table 453.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1981 AND 1982

[Excludes government and self-employed workers]

Major industry group	Number of establishments	Number of employees, mid-March	Payroll ($1,000)	
			First quarter	Annual
1981				
Total 1/	21,264	312,195	984,003	4,092,561
Agriculture, fisheries	207	1,892	4,948	22,232
Mining	8	278	1,460	6,088
Contract construction	1,603	22,812	115,576	458,923
Manufacturing 1/, 2/	861	24,461	83,478	353,166
Food and kindred products	205	10,946	33,325	151,096
Apparel and other textile products	134	3,637	7,261	31,591
Transportation, other utilities 1/	892	28,215	140,567	599,751
Wholesale trade	1,621	17,674	69,889	287,002
Retail trade 1/, 2/	5,728	84,832	178,606	743,232
Eating and drinking places	1,622	34,057	49,425	203,899
Finance, insurance, real estate 1/	2,902	30,112	101,263	412,939
Services 1/, 2/	6,461	98,770	282,068	1,177,791
Hotels and other lodging places	211	24,496	63,893	261,098
Health services	1,543	18,662	72,862	308,387
Nonclassifiable establishments	981	3,149	6,151	31,442
1982				
Total	21,655	309,146	1,026,323	4,264,863
Agriculture, fisheries	207	1,850	4,698	20,290
Mining	14	282	1,580	6,187
Contract construction	1,540	19,416	105,097	425,681
Manufacturing 2/	863	23,215	84,595	363,791
Food and kindred products	204	10,354	34,279	158,805
Apparel and other textile products	136	3,457	7,179	31,208
Transportation, other utilities	944	28,445	147,721	624,033
Wholesale trade	1,684	17,695	73,224	299,103
Retail trade 2/	6,057	85,817	185,840	781,545
Eating and drinking places	1,667	34,791	54,244	224,496
Finance, insurance, real estate	2,883	29,526	108,476	438,462
Services 2/	7,091	102,444	313,841	1,300,718
Hotels and other lodging places	224	25,475	70,443	282,444
Health services	1,677	20,227	84,702	362,092
Nonclassifiable establishments	372	456	980	5,055

Footnotes and source on next page.

Table 453.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1981 AND 1982 - Con.

1/ Revised from Data Book 1983, table 386.
2/ Includes subgroups not shown separately.
Source: U.S. Bureau of the Census, County Business Patterns, 1982, Hawaii, CBP-82-13 (October 1984), pp 1-2.

Table 454.-- CHARACTERISTICS OF BUSINESS ESTABLISHMENTS, BY EMPLOYMENT-SIZE CLASS: 1982

[Excludes government employees and self-employed persons]

Employment-size class	Number of establishments	Number of employees	Annual payroll ($1,000)
Total	21,655	309,146	4,264,863
1 to 4	11,095	23,277	346,755
5 to 9	4,592	32,211	387,523
10 to 19	2,921	41,463	500,083
20 to 49	2,005	61,973	777,873
50 to 99	648	44,698	565,031
100 to 249	296	44,093	678,104
250 to 499	56	20,401	292,490
500 to 999	24	16,153	251,475
1,000 to 1,499	12	24,877	465,528
1,500 to 2,499	6		
2,500 or more	-		

Source: U.S. Bureau of the Census, County Business Patterns, 1982, Hawaii, CBP-82-13 (October 1984), pp. 3, 11, and 14.

Table 455.-- REGISTERED CORPORATIONS AND PARTNERSHIPS: 1981 TO 1984

[Excludes eleemosynary corporations]

Subject	1981	1982	1983	1984
Domestic (Hawaii) corporations:				
Formed 1/	3,386	3,126	2,773	2,770
Dissolved or merged 2/	267	1,436	1,846	4,103
On record, June 30	24,726	26,416	27,343	26,010
Foreign (non-Hawaii) corporations:				
Qualified 1/	454	468	480	495
Withdrawn, merged, or cancelled 2/	79	328	326	313
On record, June 30	3,583	3,723	3,877	4,059
Partnerships:				
Registered 1/	1,938	1,841	1,798	1,430
Dissolved or cancelled 2/	384	1,827	1,186	1,249
On record, June 30	8,194	8,208	8,820	9,001

1/ Annual totals for fiscal years ended June 30.

2/ Annual totals for fiscal years ended June 30. Annual fluctuations may partly reflect the sporadic purging of defunct firms from the registration files.

Source: Hawaii State Department of Commerce and Consumer Affairs, Business Registration Division, records.

Table 456.-- CORPORATIONS, TAXABLE AND NONTAXABLE: 1977 TO 1981

Subject	Fiscal year ended in --			
	1977	1978	1979	1981
Number of corporations	12,160	13,127	13,285	16,585
Taxable	7,216	6,924	7,463	7,536
Nontaxable	4,944	6,203	5,822	9,049
Business receipts 1/	11,308	12,215	13,442	17,878
Taxable corporations 1/	7,652	9,034	9,538	10,941
Nontaxable corporations 1/	3,656	3,181	3,904	6,937
Taxable income, excluding net losses 2/	418.9	560.9	706.9	706.5

1/ In millions of dollars.

2/ In millions of dollars. Includes taxable income reported by Small Business Corporations, taxable to individual stockholders only.

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Corporations for 1977, 1978, and 1979, and data for 1981 provided July 19, 1984.

Table 457.-- PROPRIETORSHIPS: 1977 TO 1981

Subject	1977	1979	1981
Number of businesses, total	42,343	46,029	54,473
With net profit	27,859	32,357	33,475
With net loss	14,484	13,672	20,998
Business receipts, total ($ million)	840.2	1,051.0	868.5
Businesses with net profit ($ million)	706.5	896.9	717.3
Businesses with net loss ($ million)	133.7	154.1	151.2
Net profit reported ($ million)	251.3	263.5	184.4
Net loss reported ($ million)	38.7	35.0	58.4

Source: Hawaii State Department of Taxation, Hawaii Income Patterns--Proprietorships (biennial report), and data provided July 17, 1984.

Table 458.-- LARGEST PUBLIC AND PRIVATE CORPORATIONS: MOST RECENT AVAILABLE YEAR

Company	Year founded	Sales (million dollars)	Employees
Amfac	1849	2,253.0	22,000
Pacific Resources Inc. (PRI)	1904/1970	1,554.0	818
Castle & Cooke	1851	1,551.0	35,000
Hawaiian Electric Industries	1891/1983	622.6	1,656
Alexander & Baldwin	1870/1900	453.2	3,600
Hawaiian Telephone	1883	368.2	4,527
Bancorp Hawaii	1897/1971	345.0	2,694
Hawaii Medical Service Association	1938	275.0	720
First Hawaiian, Inc.	1858/1974	266.9	2,107
C. Brewer	1826	207.7	5,000

Source: Michael Schmicker, "Hawaii Business Top 250," Hawaii Business, July 1984, p. 35.

Table 459.-- REVENUES FROM HAWAII AND ELSEWHERE FOR MAJOR HAWAII-BASED CORPORATIONS: 1967 AND 1982

[Millions of dollars]

Company	Revenues in Hawaii		Revenues outside Hawaii	
	1967	1982	1967	1982
AMFAC	146	460	-	1,700
Castle and Cooke	87	252	262	1,500
Dillingham	(NA)	280	(NA)	1,200
Pacific Resources	9.4	885	-	505
Alexander and Baldwin	204	376	1.4	21.7
C. Brewer	63	195	48	8.3

NA Not available.

Source: Russ Lynch, "Isle Companies Reach Afar for Diversification," Honolulu Star-Bulletin, March 31, 1983, pp. E-1 and E-5.

Table 460.-- WOMEN-OWNED BUSINESSES, BY INDUSTRY: 1977

[A firm was considered to be women-owned if the sole owner or at least half of the partners were women; a corporation was classified as women-owned if 50 percent or more of the shares were owned by women]

Industries	All firms		With paid employees			
	Firms (number)	Gross receipts ($1,000)	Firms (number)	Employees 1/ (number)	Annual payroll ($1,000)	Gross receipts ($1,000)
All industries	4,815	165,127	732	4,080	23,621	127,284
Wholesale trade	131	15,970	31	137	1,303	13,367
Retail trade	1,785	86,552	389	2,376	11,830	70,860
Selected services	1,933	30,236	202	948	5,741	19,542
Other and not classified	966	32,369	110	619	4,747	23,515

1/ For week including March 12.

Source: U.S. Bureau of the Census, 1977 Economic Censuses, WB77-1, Women-Owned Businesses (May 1980), p. 39.

Table 461.-- INDUSTRIAL AND COMMERCIAL FAILURES: 1977 TO 1981

Year	Number	Current liabilities (million dollars)
1977	9	1.8
1978	31	9.0
1979	38	8.7
1980	83	21.6
1981	89	23.5

Source: Data from Dun and Bradstreet, Inc., cited in Statistical Abstract of the United States for 1979 (p. 575), 1980 (p. 576), 1981 (p. 538), and 1984 (p. 535).

Section 16

COMMUNICATIONS

This section presents statistics on the usage, finances, and operations of the various communications media: postal service, telephone, telegraph, radio, television, newspapers and periodicals, and books.

Hawaii is served by all major communications media. In 1983 it had 130 post offices and stations handling 305 million pieces of mail and accounting for postal receipts in excess of $80 million. There were 458,000 telephone lines in service, 332,000 telephone homes, about 1.9 billion local calls originated, 12 million completed interisland calls (in 1981), and 32 million incoming and outgoing transpacific calls (in 1980). Telegraph messages to and from Hawaii in 1982 totaled 169,000. The 41 commercial, public and educational radio stations in the Islands in 1984 included 26 on the regular broadcast band and 15 FM stations. The State also had 15 television stations (13 commercial and 2 public), including satellites but excluding translators. Ten cable TV companies served 188,000 subscribers. An estimated 97 percent of all households in the State had television sets. Island publishers printed nine daily newspapers, numerous magazines and other periodicals, and a wide diversity of books. Newspaper circulation reported by the two English-language dailies on Oahu averaged 197,000 in 1983-1984, compared with 207,000 a decade earlier.

The major sources for statistics on communications are the reports and records of the U.S. Postal Service, Federal Communications Commission, Division of Consumer Advocacy and CATV Division of the Hawaii State Department of Commerce and Consumer Affairs, Hawaiian Telephone Company, Audit Bureau of Circulations, A. C. Nielsen Co., and Hawaii Media Guide. Earlier figures appear in Historical Statistics of Hawaii, Section 18. Data on communications for other States and for the nation as a whole are carried in Statistical Abstract of the United States: 1984, Section 19.

Table 462.-- POSTAL SERVICE: 1973 TO 1983

[For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Number of post offices 1/	Gross postal receipts ($1,000)	Pieces of mail 2/ (millions)
1973	77	27,100	226
1974	76	29,663	233
1975	76	33,549	238
1976	76	37,433	242
1977	76	43,790	249
1978	76	49,198	267
1979	76	55,267	276
1980	76	58,413	298
1981	76	67,055	293
1982	76	77,424	290
1983	76	80,943	305

1/ At end of period. Includes all 1st-, 2nd-, 3rd-, and 4th-class post offices; excludes branches and stations.

2/ Originating in Hawaii. Mail originating elsewhere is excluded.

Source: U.S. Postal Service, Pacific District, records.

Table 463.-- NUMBER OF POST OFFICES AND STATIONS, BY ISLANDS: JUNE 30, 1984

Island	Total	Post offices 1/			Stations	
		1st class	2nd class	3rd class	Classified 2/	Contract 3/
State total ..	130	25	33	18	31	23
Hawaii	33	7	11	10	2	3
Maui	16	5	5	-	2	4
Lanai	1	-	1	-	-	-
Molokai	5	-	1	4	-	-
Oahu	58	11	5	1	26	15
Kauai	17	2	10	3	1	1
Niihau	-	-	-	-	-	-

1/ There are no fourth-class post offices in the State.

2/ Staffed by career postal employees.

3/ Operated under a contractual agreement between the Postal Service and an individual contractor.

Source: U.S. Postal Service, Honolulu, Address Information Systems, data supplied July 3, 1984.

Table 464.-- TELEGRAPH MESSAGES: 1972 TO 1982

Year	Total messages	From Hawaii to Mainland			From Mainland to Hawaii		
		Total from Hawaii	Originated in Hawaii	Originated elsewhere	Total to Hawaii	Originated on Mainland	Originated elsewhere
1972 ..	392,596	189,214	122,792	66,422	203,382	141,682	61,700
1973 1/	385,823	187,130	116,850	70,280	198,693	136,747	61,946
1974 ..	382,281	185,204	100,321	84,883	197,077	125,319	71,758
1975 ..	346,851	166,700	81,986	84,714	180,151	110,390	69,761
1976 ..	307,036	156,235	70,692	85,543	150,801	80,638	70,163
1977 ..	277,748	142,903	61,512	81,391	134,845	70,826	64,019
1978 ..	271,747	137,687	54,505	83,182	134,060	69,055	65,005
1979 ..	262,888	134,265	50,522	83,743	128,623	65,598	63,025
1980 ..	222,410	120,785	43,543	77,242	101,625	46,564	55,061
1981 ..	196,350	106,248	34,432	71,816	90,102	37,924	52,178
1982 ..	168,501	88,325	27,951	60,374	80,176	31,227	48,949

1/ Corrected from previous editions of the Data Book.
Source: Federal Communications Commission, Common Carrier Bureau, records.

Table 465.-- TELEPHONE ACCESS LINES: 1981 TO 1983

[As of December 31. Access lines represent the lines connecting customers to the network regardless of the ownership of the customer premises equipment. Business access includes key and coin system lines]

Year	All access lines		Residence access	Business access	Other types
	State total	Oahu			
1981 1/ .	431,893	324,968	314,355	95,000	22,538
1982 1/ .	445,452	334,150	323,588	98,691	23,173
1983	458,339	342,094	332,051	102,923	23,365

1/ Revised from Data Book 1983, table 399.
Source: Hawaiian Telephone Company, records.

Table 466.-- TELEPHONES IN SERVICE AND RESIDENCE MAIN STATIONS: 1971 TO 1981

[As of December 31. Data limited to the Hawaiian Telephone Company. As a result of changes brought about by the deregulation of the telephone industry, the series reported in this table no longer include all or almost all of the telephones in Hawaii, and moreover are subject to disclosure rules that preclude their publication for years after 1981]

Year	Telephones in service			Residence main stations
	State total	Oahu	Other islands	
1971	445,995	365,733	80,262	212,983
1972	498,593	412,443	86,150	221,277
1973	523,699	430,612	93,087	231,146
1974	544,718	444,359	100,359	239,923
1975	567,685	460,602	107,083	250,319
1976	596,952	480,937	116,015	262,982
1977	627,848	501,914	125,934	273,860
1978	659,141	523,472	135,669	285,948
1979	684,812	539,582	145,230	296,433
1980	712,095	555,790	156,305	303,928
1981	728,352	563,630	164,722	311,430

Source: Hawaiian Telephone Company, records, for 1971 through 1980; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records, for 1981.

Table 467.-- TELEPHONE CALLS: 1973 TO 1983

[In thousands]

Year	Local 1/		Interisland 2/		Transpacific (paid) 2/	
	Originating	Completed	Paid 3/	Completed	Outgoing	Incoming and outgoing 4/
1973	1,379,709	931,304	3,754	3,805	3,795	6,814
1974	1,438,381	949,332	4,494	4,564	4,775	8,620
1975	1,395,876	918,486	5,156	5,352	5,908	10,703
1976	1,517,337	1,012,064	5,851	6,140	7,448	13,621
1977	1,566,869	1,052,936	6,838	7,028	9,485	17,103
1978	1,719,200	1,139,829	8,087	8,317	12,232	22,540
1979	1,830,954	1,186,458	9,635	10,040	15,160	28,076
1980	1,957,427	1,468,070	10,652	11,239	17,199	31,609
1981	1,857,938	1,393,454	11,316	11,993	(NA)	(NA)
1982	1,892,430	1,419,322	(NA)	(NA)	(NA)	(NA)
1983	1,928,517	1,446,388	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ The number of local calls is affected as central offices are being converted to Electronic Common Control (ECC). ECC records call attempts after the first digit is dialed. Non-ECC offices record the call attempts when the handset is lifted. Also significant in 1981 were an estimated 17 million fewer calls due to the implementation of Directory Assistance Charging. Because of these fundamental changes in data collection, more recent figures are not comparable to earlier years.

2/ As a result of deregulation of the telephone industry, these series became subject to disclosure rules after 1980 or 1981, and regular publication of annual data was suspended.

3/ Excludes uncollectables.

4/ Includes calls paid in Hawaii and elsewhere.

Source: Hawaiian Telephone Company, records; Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 468.-- TELEPHONE SERVICE, BY ISLANDS: 1981

[As a result of deregulation of the telephone industry, the series shown in this table became subject to disclosure rules after 1981, and regular publication of annual data was suspended]

Island	Telephones in service, Dec. 31	Main stations, Dec. 31		Inter-island calls 1/
		Residence	Business	
State total ..	728,352	311,430	81,499	11,992,843
Oahu	563,630	241,261	62,304	5,539,848
DATS 2/	27,676	-	12,497	...
Other Oahu	535,954	241,261	49,807	...
Other islands	164,722	70,169	19,195	6,452,995
Hawaii	70,183	30,735	8,440	2,698,799
Maui	58,875	24,225	6,524	2,384,111
Lanai	916	646	103	...
Molokai	3,652	1,759	440	...
Kauai	31,096	12,804	3,688	1,370,085

1/ Number completed, by island of origination. Oahu total includes Lanai and Molokai.

2/ Defense Administrative Telephone System.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 469.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: 1924 TO 1984

[Stations licensed or holding construction permits, 1924-1953; stations on the air, 1959 and later years. Data are as of January 1 unless otherwise specified]

Year	Commercial stations			Non-commercial stations		
	AM	FM	TV 1/	AM	FM	TV 1/
1924	3	-	-	-	-	-
1929	2	-	-	-	-	-
1934	2	-	-	-	-	-
1939	3	-	-	-	-	-
1944	4	-	-	-	-	-
1949 (June 30)	9	-	-	-	-	-
1953	12	-	2	-	-	-
1959	15	1	7	-	2	-
1964	23	2	10	-	1	-
1969	25	4	10	-	-	2
1974	25	7	10	-	1	2
1975	26	5	10	-	1	2
1976	26	6	10	-	1	2
1977	25	7	10	-	1	2
1978 2/	25	8	10	-	1	2
1979 2/	25	8	10	-	1	2
1980	25	10	10	-	1	2
1981	25	11	10	-	1	2
1982 (June 30) 2/ ..	29	14	11	-	2	2
1983 (June 30)	26	12	12	-	2	2
1984 (June 30)	26	13	13	-	2	2

1/ Excluding translators and cable television.

2/ Data for commercial TV, 1978, 1979, and 1982, and non-commercial AM and FM, 1978, revised from figures in earlier editions of The State of Hawaii Data Book.

Source: 1924-1977 from Federal Communications Commission data cited in Historical Statistics of Hawaii (University Press of Hawaii, 1977), p. 482. 1978-1982 from Federal Communications Commission, Broadcast Bureau, Broadcast Facilities Division, records, as corrected; 1982-1983 from Federal Communications Commission, Field Operations Bureau, Honolulu, October 28, 1983 and July 25, 1984.

Table 470.-- COMMERCIAL AND NON-COMMERCIAL RADIO AND TELEVISION BROADCASTING STATIONS IN OPERATION: JUNE 30, 1984

County	Commercial stations			Non-commercial stations		
	AM 1/	FM	TV 2/	AM	FM	TV 2/
State total ..	26	13	13	-	2	2
Hawaii	4	3	4	-	-	-
Maui	3	2	3	-	-	1
Honolulu	17	7	6	-	2	1
Kauai	2	1	-	-	-	-

1/ Station KAIM, with studios on Oahu but transmitter on Molokai, is included with the Honolulu total.

2/ Includes satellites but excludes translators and cable television.

Source: Federal Communications Commission, Field Operations Bureau, Honolulu, July 25, 1984.

Table 471.-- CABLE TELEVISION COMPANIES, SUBSCRIBERS, AND REVENUES, BY COUNTIES: 1982 AND 1983

County	Number of companies Dec. 31 1/		Subscribers, Dec. 31		Gross revenue ($1,000)	
	1982	1983	1982	1983	1982	1983
State total	10	10	165,481	187,966	19,289	22,101
Hawaii	3	3	16,703	17,528	2,903	2,343
Maui	2	2	14,464	16,007	1,435	1,757
Honolulu	4	4	131,652	148,649	14,564	16,898
Kauai	2	2	2,662	5,782	387	1,103

1/ State totals are unduplicated figures; one company provided service to both Hawaii and Maui Counties.

Source: Hawaii State Department of Commerce and Consumer Affairs, Cable Television Division, records.

Table 472.-- TELEVISION HOUSEHOLDS, BY GEOGRAPHIC AREAS: JANUARY 1984

Geographic area	Total households	Television households	
		Number	Percent
State total ...	324,100	313,470	96.7
Oahu	251,469	244,420	97.2
Other islands	72,631	69,050	95.1

Source follows next table.

Table 473.-- HOUSEHOLDS AND PERSONS VIEWING TELEVISION, BY TIME OF DAY: FEBRUARY 1984 AND MAY 1984

[Mean numbers of viewers, Sunday through Saturday]

Time of day	Households 1/		Persons 2/	
	Feb. 1984	May 1984	Feb. 1984	May 1984
Sign-on to sign-off, 7 A.M. to 1 A.M.	86,000	82,000	149,000	139,000
Prime time, 6:30 P.M. to 10 P.M. ..	182,000	163,000	354,000	317,000

1/ Average number of households with a television set that is turned on.

2/ Average number of persons, 2 years old and over, in television households that are viewing any station at least once a week.

Source: Nielsen Station Index Honolulu, Hawaii, February and May 1984; Hawaii Public Broadcasting Authority.

Table 474.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS, FOR OAHU: 1973-74 TO 1983-84

[Averages for 12-month periods ended March 31]

Year	Honolulu Advertiser 1/	Honolulu Star-Bulletin 2/	Sunday Star-Bulletin and Advertiser
1973-74 ...	76,763	130,532	190,037
1974-75 ...	75,613	119,691	183,783
1975-76 ...	73,834	115,145	183,566
1976-77 ...	77,442	118,925	191,903
1977-78 ...	79,501	118,883	195,594
1978-79 ...	82,981	119,211	201,681
1979-80 ...	83,479	118,341	201,445
1980-81 ...	83,721	115,815	201,301
1981-82 ...	83,825	112,011	197,135
1982-83 ...	84,882	112,912	197,142
1983-84 ...	85,593	111,825	197,793

1/ Published mornings, Monday through Saturday.
2/ Published afternoons, Monday through Saturday.
Source: Hawaii Newspaper Agency, Inc., records.

Table 475.-- AVERAGE PAID CIRCULATION OF DAILY AND SUNDAY ENGLISH-LANGUAGE NEWSPAPERS, FOR THE NEIGHBOR ISLANDS: 1972-73 TO 1983-84

[Averages for 12-month periods ended March 31]

Year	Hawaii Tribune-Herald		West Hawaii Today 1/	Maui News 2/	Garden Island 3/
	Daily 4/	Sunday			
1972-73 ...	14,187	14,534	4,550	(NA)	8,386
1973-74 ...	15,216	15,654	4,746	(NA)	8,695
1974-75 ...	15,710	16,303	4,703	(NA)	8,899
1975-76 ...	16,386	17,361	4,736	(NA)	8,989
1976-77 ...	16,424	17,548	4,592	13,220	8,812
1977-78 ...	16,440	17,950	4,625	13,561	8,985
1978-79 ...	16,964	18,651	5,053	14,975	9,306
1979-80 ...	17,825	19,555	5,977	15,109	9,601
1980-81 ...	18,450	20,104	6,537	15,281	9,940
1981-82 ...	18,912	20,531	6,804	13,965	9,348
1982-83 ...	19,103	21,094	6,599	14,323	9,363
1983-84 ...	19,438	21,892	6,762	15,468	9,649

NA Not available.

1/ Published weekly, 1968-1974; twice weekly, 1974-1976; 3 times weekly, 1976-1982; and 5 times weekly (Monday through Friday mornings), beginning March 1, 1982.

2/ Published 3 times weekly, September 1970 through May 1981, and 5 times weekly (Monday through Friday afternoons) beginning June 1, 1981. Figure for 1981-1982 refers to 6-month period ended March 31, 1982.

3/ Published Monday and Wednesday through February 1976; Monday, Wednesday and Friday from March 1976 through March 1981; Monday, Wednesday, Thursday and Friday from April 1, 1981 through February 14, 1982; Monday, Tuesday, Wednesday and Friday from February 15, 1982 through June 30, 1984; and Monday, Tuesday, Wednesday, and Friday afternoons, and also Sunday effective July 1, 1984.

4/ Published 5 times weekly, Monday through Friday afternoons.

Source: Hawaii Tribune-Herald, Maui Publishing Co., Ltd., West Hawaii Today, and Kauai Publishing Co., records.

Table 476.-- PERIODICALS PUBLISHED IN HAWAII: 1984

Frequency	Newspapers 1/ English	Newspapers 1/ Foreign language	Magazines and other periodicals
Daily, 5 to 7 times weekly	6	3	-
2 to 4 times weekly	-	-	3
Weekly	9	1	8
Semi-monthly or biweekly	4	3	5
Monthly	1	-	31
2 to 10 times annually	-	-	10

1/ The daily newspapers were: Honolulu Advertiser, Honolulu Star-Bulletin, Hawaii Tribune-Herald (Hilo), The Maui News (Wailuku), West Hawaii Today (Kailua-Kona), and The Garden Island (Lihue), all English-language; Hawaii Hochi, Japanese and English; The Korean Times and Han Kook Ilbo, Korean language; and United Chinese Press, Chinese language. Except as noted above, all are published in Honolulu.

Source: Aloha United Way, Hawaii Media Guide and supplements.

Table 477.-- BOOKS AND SCHOLARLY JOURNALS PUBLISHED BY THE UNIVERSITY OF HAWAII PRESS: 1982 AND 1983

[The University Press of Hawaii was renamed the University of Hawaii Press in 1982]

Year	Published titles 1/		New books and journals published 2/		Volumes sold 2/	Sales revenues 2/ (dollars)
	Cumulative total	In print	Books	Scholarly journals		
1982	648	499	29	7	196,093	888,504
1983	669	525	22	7	197,981	1,510,885

1/ As of June 30.

2/ Year ended June 30.

Source: The University of Hawaii Press, Annual Report (annual), and records.

Table 478.-- POSTAGE AND TELEGRAPH RATES AND NEWSPAPER PRICES, FOR HONOLULU: 1974 TO 1984

[In cents. As of July 1]

Year	Domestic postage rates 1/			Telegraph rate per word 2/	Newspaper price 3/	
	Letters		Postal and post cards		Daily	Sunday
	First ounce	Each added ounce				
1974	10	10	8	21	20	45
1975	10	10	8	21	20	50
1976	13	11	9	21	20	50
1977	13	11	9	21	20	50
1978	15	13	10	21	20	50
1979	15	13	10	21	25	60
1980	15	13	10	21	25	60
1981	18	17	12	10.5	25	75
1982	20	17	13	21	25	100
1983	20	17	13	21	25	100
1984	20	17	13	21	25	100

1/ First class mail rates. Beginning in 1959, first-class mail was routinely airlifted to and from the Mainland, and, effective October 11, 1975, surface mail service was upgraded to the level of airmail throughout the nation. Domestic airmail service was discontinued, as a separate class of mail, as of May 1, 1977.

2/ Per full-rate word (non-coded) between Honolulu and the Mainland.

3/ Street sales, for the Honolulu Advertiser, Honolulu Star-Bulletin, and Sunday Star-Bulletin and Advertiser.

Source: Postal rates from Statistical Abstract of the United States: 1984, p. 557, as updated. Telegraph rates from Federal Communications Commission, records, and telegraph company Honolulu offices. Newspaper rates from mastheads.

Table 479.-- HAWAIIAN TELEPHONE COMPANY RATES FOR SPECIFIED TYPES OF SERVICE, FOR HONOLULU: 1974 TO 1984

[In dollars. As of July 1. Including federal excise tax where applicable]

Year	Local call, pay phone	Honolulu to Hilo		Honolulu to California		Monthly charge, indiv. res. line 3/
		Direct dialing 1/	through operator 2/	Direct dialing 1/	Through operator 2/	
1974 ..	0.10	0.97	0.97	2.59	3.40	10.53
1975 ..	0.10	0.96	0.96	2.57	3.37	10.17
1976 ..	0.10	0.95	0.95	2.39	3.34	10.07
1977 ..	0.10	0.94	0.94	1.86	2.84	9.98
1978 ..	0.15	0.94	0.94	1.84	2.81	11.86
1979 ..	0.15	0.90	0.90	1.61	2.55	11.74
1980 ..	0.15	1.06	1.89	1.64	2.60	11.63
1981 ..	0.15	1.06	1.89	1.64	2.60	11.63
1982 ..	0.15	1.05	1.87	1.74	2.63	11.51
1983 ..	0.15	1.07	1.91	1.77	3.37	11.31
1984 ..	0.15	1.07	1.91	1.66	3.25	11.74

1/ Daytime calls, first three minutes.

2/ Station-to-station operator-handled daytime weekday calls, first three minutes.

3/ Telephone rental included through February 5, 1983, and excluded thereafter. In 1984, the monthly rental charge for a standard desk-top telephone was $1.85.

Source: Hawaiian Telephone Company, records.

Section 17

ENERGY AND SCIENCE

This section presents statistics on energy production and consumption, the electric and gas utility industries, research and development, and scientific resources.

Total energy consumption in 1982 amounted to 218 trillion British thermal units, compared with 226 trillion BTU a decade earlier. Transportation accounted for 47 percent of the 1982 total. Primary consumption expenditures for fuels and electricity in 1981 totaled $1.9 billion.

Electricity sales exceeded 6.4 billion kilowatt-hours in 1983, a total that has doubled since 1968. Manufactured gas sales reached 31.3 million therms in 1983, 9.4 percent below the figure ten years earlier. Residential rates in 1983 averaged 11.3 cents per kilowatt-hour and $1.80 per therm, both well above the corresponding rates only a few years earlier. Average residential use (6,569 kWh and 219 therms in 1983) has declined significantly in recent years. By 1981, almost seven percent of the housing units in the State had solar heating devices.

The liquid fuel tax base for 1983 was approximately 920 million gallons, compared with 825 million in 1974 and 755 million in 1970. The 1983 total included 310 million gallons of gasoline, 502 million of aviation fuel, and 104 million of diesel oil. The average price for unleaded gasoline rose from 69.6 cents per gallon in January 1976 to $1.633 six years later, then fell to $1.490 by June 1984.

The State is well served with scientific resources. Especially noteworthy is the cluster of telescopes used for astronomical observations at the summit of Mauna Kea -- six major facilities (plus two under construction), with cumulative capital costs of $53 million and Hawaii-based staff of 95 persons as of 1984. Federal research and development obligations in Hawaii approached $45 million in 1982. Thirty patents were granted to Hawaii residents in 1983.

Information on energy and science can be obtained from reports and records of the U.S. Department of Energy, U.S. Patent and Trademark Office, U.S. Bureau of the Census, National Science Foundation, Hawaii State Department of Taxation, Hawaii State Department of Commerce and Consumer Affairs and its Division of Consumer Advocacy (formerly the Department of Regulatory Agencies, Public Utilities Division), and individual utility companies. Detailed statistics on energy consumption appear in Hawaii Integrated Energy Assessment, Vol. IV, Energy Data Handbook, published by the State Energy Office of the Department of Planning and Economic Development in 1980. Historical Statistics of Hawaii, Section 19, presents data for earlier years. Data for the nation as a whole can be found in the Statistical Abstract of the United States: 1984, Sections 20 and 21.

Table 480.-- CONSUMPTION OF ENERGY, BY SOURCE (PHYSICAL UNITS): 1960 TO 1982

[Revised from Data Book 1983, table 413]

Year	Petroleum 1/ (1,000 barrels)	Hydroelectric power 2/ (million kWh)	Geothermal power 3/ (million kWh)	Wood and waste 3/ (million kWh)	Natural gas (dry) (billion cubic feet)	Other types 4/
1960	17,239	27	0	0	0	0
1961	20,628	24	0	0	0	0
1962	19,604	20	0	0	0	0
1963	20,955	23	0	0	0	0
1964	22,691	115	0	0	0	0
1965	23,732	105	0	0	0	0
1966	26,236	112	0	2	0	0
1967	29,939	108	0	0	0	0
1968	33,196	94	0	30	0	0
1969	34,645	100	0	29	0	0
1970	35,592	108	0	24	0	0
1971	38,079	89	0	15	0	0
1972	39,142	91	0	18	0	0
1973	39,976	95	0	22	0	0
1974	37,939	92	0	30	0	0
1975	38,313	89	0	25	0	0
1976	38,909	93	0	29	0	0
1977	40,777	86	0	26	0	0
1978	41,259	84	0	0	0	0
1979	45,477	90	0	0	0	0
1980	45,246	86	0	0	3	0
1981	40,209	80	0	15	3	0
1982	37,349	90	0	26	3	0

1/ For data by type of petroleum, see source.

2/ Includes only utility production for 1960-1963 and industrial and utility production for 1964 and thereafter.

3/ Consumed at utilities to produce electricity.

4/ Coal and nuclear power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1982 (May 1984), p. 204.

Table 481.-- CONSUMPTION OF ENERGY, BY SOURCE (TRILLION BTU): 1960 TO 1982

[Revised from Data Book 1983, table 414]

Year	Total energy consumed 1/	Petroleum 2/	Hydroelectric power 3/	Geothermal power 4/	Wood and waste 4/	Natural gas (dry)	Other types 5/
1960	97.2	96.9	0.3	0.0	0.0	0.0	0.0
1961	117.3	117.0	0.3	0.0	0.0	0.0	0.0
1962	112.0	111.8	0.2	0.0	0.0	0.0	0.0
1963	120.0	119.8	0.2	0.0	0.0	0.0	0.0
1964	131.3	130.1	1.2	0.0	0.0	0.0	0.0
1965	137.7	136.6	1.1	0.0	0.0	0.0	0.0
1966	152.0	150.8	1.2	0.0	(Z)	0.0	0.0
1967	173.5	172.4	1.1	0.0	0.0	0.0	0.0
1968	192.5	191.2	1.0	0.0	0.3	0.0	0.0
1969	199.8	198.4	1.0	0.0	0.3	0.0	0.0
1970	205.4	204.0	1.1	0.0	0.3	0.0	0.0
1971	219.2	218.1	0.9	0.0	0.2	0.0	0.0
1972	225.9	224.7	0.9	0.0	0.2	0.0	0.0
1973	230.8	229.6	1.0	0.0	0.2	0.0	0.0
1974	218.9	217.6	1.0	0.0	0.3	0.0	0.0
1975	221.3	220.1	0.9	0.0	0.3	0.0	0.0
1976	224.8	223.6	1.0	0.0	0.3	0.0	0.0
1977	236.3	235.1	0.9	0.0	0.3	0.0	0.0
1978	239.0	238.2	0.9	0.0	0.0	0.0	0.0
1979	261.3	260.4	0.9	0.0	0.0	0.0	0.0
1980	264.0	259.9	0.9	0.0	0.0	3.2	0.0
1981	236.0	232.1	0.8	0.0	0.2	3.0	0.0
1982	217.9	213.8	0.9	0.0	0.3	2.9	0.0

Z Represents small, non-zero value.
1/ Totals may not equal sum of components due to independent rounding.
2/ For data by type of petroleum, see source.
3/ Includes industrial and utility production.
4/ Consumed at utilities to produce electricity.
5/ Coal and nuclear power.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1982 (May 1984), p. 204.

Table 482.-- CONSUMPTION OF ENERGY BY END-USE SECTOR: 1960 TO 1982

[Trillion Btu. Revised from Data Book 1983, table 415]

Year	Total energy consumed 1/	Residential 2/	Commercial 2/	Industrial 2/	Transportation 2/	Electric utilities 3/
1960	97.2	7.3	5.1	20.6	64.2	17.6
1961	117.3	7.5	5.4	28.2	76.2	19.4
1962	112.0	8.0	5.5	30.2	68.4	21.4
1963	120.0	8.9	6.0	31.2	73.9	24.2
1964	131.3	9.6	6.6	34.2	80.9	26.7
1965	137.7	10.1	6.7	37.0	83.8	27.6
1966	152.0	10.8	7.3	38.4	95.4	29.7
1967	173.5	12.1	8.0	43.2	110.3	31.3
1968	192.5	13.1	8.8	42.4	128.3	35.0
1969	199.8	14.9	9.8	44.5	130.6	38.7
1970	205.4	16.4	11.5	47.7	129.8	43.2
1971	219.2	17.8	11.4	46.7	143.4	47.7
1972	225.9	19.6	12.7	52.9	140.7	54.1
1973	230.8	20.0	13.4	52.7	144.6	55.6
1974	218.9	20.3	13.3	52.8	132.5	57.5
1975	221.3	19.6	13.8	53.8	134.0	58.8
1976	224.8	21.3	15.3	54.4	133.9	62.5
1977	236.3	21.8	16.8	56.3	141.4	65.2
1978	239.0	21.8	17.4	55.2	144.7	66.8
1979	261.3	22.9	18.1	63.9	156.4	67.7
1980	264.0	23.3	20.9	73.1	146.7	69.7
1981	236.0	23.0	18.8	70.1	124.0	69.9
1982	217.9	21.6	17.6	76.5	102.2	66.9

1/ Totals do not include small quantities of energy sources for which consistent historical data are not available, such as solar energy obtained by the use of thermal and photovoltaic collectors; wind energy; and geothermal, biomass, and waste energy other than that consumed at the electric utilities.

2/ Data include power from electric utilities, including electrical energy losses incurred in the generation and transmission of electricity.

3/ Energy input at electric utilities. Distributed among the other four sectors.

Source: U.S. Department of Energy, Energy Information Administration, State Energy Data Report, Consumption Estimates, 1960-1982 (May 1984), p. 205.

Table 483.-- EXPENDITURES FOR FUELS AND ELECTRICITY: 1970 TO 1981

[Million dollars]

Year	Primary consumption expenditures			Less: Electric utility fuel expend.	Plus: Electricity purchased by end users	Total energy expend-itures
	Total	Petrol-eum products	Other energy sources			
1970	220.0	219.8	0.2	16.8	89.5	293
1971	248.5	248.4	.1	22.2	103.8	330
1972	256.7	256.6	.1	28.7	116.0	344
1973	305.3	305.1	.2	35.8	135.2	405
1974	436.2	435.9	.3	45.9	164.1	554
1975	554.5	554.2	.2	89.8	231.0	696
1976	610.2	609.9	.3	99.8	251.4	762
1977	706.2	705.9	.3	123.9	288.1	870
1978	777.8	777.8	-	149.5	334.2	963
1979	1,098.9	1,098.9	-	179.8	372.5	1,292
1980	1,549.0	1,549.0	-	270.6	485.2	1,764
1981	1,865.5	1,818.5	47.0	460.2	761.4	2,167

Source follows next table.

Table 484.-- EXPENDITURES AND PRICES OF FUELS AND ELECTRICITY, BY SECTORS: 1970, 1980, AND 1981

Sector and energy source	Expenditures (million dollars)			Average prices (dollars per million Btu)		
	1970	1980	1981	1970	1980	1981
Residential sector	41.7	173.8	272.6	6.86	22.09	29.09
Primary consumption ..	5.5	19.5	40.3	3.24	12.29	14.37
Electricity	36.2	154.3	232.3	8.26	24.57	35.38
Commercial sector	30.5	155.8	228.8	5.69	19.44	26.78
Primary consumption ..	4.3	19.9	40.1	1.56	6.56	11.15
Electricity	26.2	135.9	188.6	10.01	27.30	38.17
Industrial sector	44.0	319.3	535.7	1.45	8.37	12.74
Primary consumption ..	17.0	124.3	195.3	0.69	4.47	6.32
Electricity	27.1	195.0	340.4	4.62	18.87	30.51
Transportation sector ..	176.4	1,114.6	1,129.6	1.36	7.60	9.12
Primary consumption ..	176.4	1,114.6	1,129.6	1.36	7.60	9.12
Electricity	-	-	-	-	-	-
Four sectors	292.7	1,763.5	2,166.7	1.71	8.79	11.78
Primary consumption ..	203.2	1,278.3	1,405.3	1.28	7.14	8.72
Electricity	89.5	485.2	761.4	6.96	22.47	33.59
Electric utility sector:						
Primary consumption ..	16.8	270.6	460.2	0.39	3.89	6.60

Source: U.S. Department of Energy, Energy Information Administration, State Energy Price and Expenditure Report 1970-1981, DOE/EIA-0376(81) (June 1984), pp. 53-55.

Table 485.-- SOURCES OF ENERGY CONSUMPTION, BY COUNTIES: 1981

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
Trillion BTU ...	263.9	213.7	21.2	9.7	19.3
Percent	100.0	100.0	100.0	100.0	100.0
Aviation fuel	33.6	41.0	2.6	0.7	1.5
Biomass 1/ ...	4.6	0.7	24.2	25.8	14.7
Gasoline	14.2	12.5	22.3	20.7	20.6
Gas 2/	2.0	2.3	1.3	0.1	0.5
Diesel	9.2	9.2	7.4	4.1	12.9
Residual	6.0	6.5	3.3	3.7	4.7
Electricity 3/	30.4	27.8	38.9	44.9	45.1

1/ Biomass is used for process steam, primarily on sugar plantations.

2/ Includes liquid petroleum gas (LPG).

3/ Includes primarily residual/diesel oils, biomass, hydropower resources used for electric generation.

Source: Hawaii State Department of Planning and Economic Development, State Energy Plan Technical Reference Document (October 1982), p. III-25.

Table 486.-- ELECTRIC UTILITIES: 1973 TO 1983

Year	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Residential	Other		Total	Residential	Other
1973 ..	246,255	210,740	35,515	1,266,600	4,867,850	1,581,855	3,285,995
1974 ..	255,901	219,633	36,268	1,419,892	5,113,906	1,635,928	3,477,928
1975 ..	263,816	226,836	36,980	1,454,359	5,334,755	1,676,438	3,658,317
1976 ..	270,035	232,070	37,965	1,454,359	5,615,209	1,750,618	3,864,592
1977 ..	275,616	237,557	38,059	1,481,680	5,831,610	1,779,314	4,052,296
1978 ..	284,064	244,863	39,201	1,487,490	6,004,891	1,799,024	4,205,867
1979 ..	293,061	252,898	40,163	1,502,840	6,197,426	1,851,457	4,345,969
1980 ..	301,544	260,358	41,186	1,514,180	6,345,531	1,852,984	4,492,547
1981 ..	305,927	265,042	40,885	1,652,380	6,424,016	1,855,837	4,568,179
1982 ..	313,009	270,712	42,297	1,644,980	6,332,707	1,801,297	4,531,410
1983 ..	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242

Year	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1973 ..	7,506	92,524	.03077	.02367	126,449	48,680	77,769
1974 ..	7,449	95,895	.03493	.02704	151,177	57,149	94,028
1975 ..	7,391	98,927	.04586	.03794	215,677	76,885	138,792
1976 ..	7,543	101,794	.04796	.03934	235,999	83,957	152,042
1977 ..	7,490	106,474	.05222	.04408	271,553	92,917	178,636
1978 ..	7,347	107,290	.05883	.04943	313,722	105,846	207,876
1979 ..	7,321	108,208	.06420	.05424	354,595	118,862	235,733
1980 ..	7,117	109,079	.07901	.06964	459,251	146,397	312,854
1981 ..	7,002	111,732	.11563	.10605	699,031	214,584	484,447
1982 ..	6,654	107,133	.12348	.11061	723,622	222,423	501,199
1983 ..	6,569	106,606	.11348	.09828	659,089	205,889	453,200

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 487.-- ELECTRIC UTILITIES, BY ISLANDS: 1983

County or island	Customers, Dec. 31			Installed capacity, Dec. 31 (kW)	Power sold (1,000 kWh)		
	Total	Resi-dential	Other		Total	Resi-dential	Other
State total	319,449	276,194	43,255	1,578,780	6,425,578	1,814,336	4,611,242
Oahu	226,070	197,400	28,670	1,283,000	5,230,658	1,377,502	3,853,156
Hawaii	39,161	32,718	6,443	116,500	466,060	188,475	277,585
Kauai	18,390	15,674	2,716	62,080	209,713	74,919	134,794
Maui County	35,828	30,402	5,426	117,200	519,147	173,440	345,707
Lanai	872	714	158	-	5,867	3,431	2,436
Maui	32,584	27,742	4,842	110,300	490,223	160,663	329,560
Molokai	2,372	1,946	426	6,900	23,057	9,346	13,711

County or island	Average annual use (kWh) 1/		Average rate (dollars per kWh)		Revenues ($1,000)		
	Resi-dential	Other	Resi-dential	Other	Total	Resi-dential	Other
State total	6,569	106,606	0.11348	0.09828	659,089	205,889	453,200
Oahu	6,978	134,397	0.10631	0.09204	501,094	146,447	354,647
Hawaii	5,761	43,083	0.12453	0.11768	56,138	23,471	32,667
Kauai	4,780	49,630	0.15568	0.15243	32,209	11,663	20,546
Maui County	5,705	63,713	0.14015	0.13115	69,648	24,308	45,340
Lanai	4,806	15,416	0.16298	0.16477	960	559	401
Maui	5,791	68,063	0.13485	0.12650	63,356	21,666	41,690
Molokai	4,803	32,187	0.22284	0.23697	5,332	2,083	3,249

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 488.-- GAS UTILITIES: 1973 TO 1983

[Excludes bottled gas]

Year	Customers, Dec. 31			Gas sold (1,000 therms)		
	Total	Residential	Other	Total	Residential	Other
1973 ...	35,781	31,142	4,639	34,540	8,931	25,609
1974 ...	35,228	30,620	4,608	34,363	8,096	26,267
1975 ...	34,685	30,236	4,449	35,594	8,230	27,364
1976 ...	34,264	29,873	4,391	35,568	8,121	27,447
1977 ...	33,722	29,408	4,314	34,844	7,612	27,232
1978 ...	33,413	29,091	4,322	34,919	7,388	27,532
1979 ...	33,309	29,014	4,295	35,264	7,326	27,937
1980 ...	33,019	28,825	4,194	34,705	7,030	27,675
1981 ...	32,421	28,343	4,078	32,396	6,422	25,975
1982 ...	32,905	28,979	3,926	32,224	6,329	25,895
1983 ...	32,880	28,933	3,947	31,307	6,338	24,970

Year	Average annual use (therms) 1/		Average rate (dollars per therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
1973 ...	287	5,520	.37518	.23121	9,272	3,351	5,921
1974 ...	264	5,700	.68361	.52267	19,264	5,535	13,729
1975 ...	272	6,151	.81723	.63583	24,125	6,726	17,399
1976 ...	272	6,251	.82767	.63369	24,115	6,722	17,393
1977 ...	259	6,313	.85883	.65821	24,462	6,537	17,925
1978 ...	254	6,370	.91647	.71792	26,536	6,770	19,766
1979 ...	253	6,505	1.09260	.89221	32,931	8,006	24,925
1980 ...	244	6,599	1.46583	1.25951	45,162	10,305	34,857
1981 ...	227	6,369	1.72585	1.50091	50,069	11,083	38,986
1982 ...	218	6,596	1.73311	1.43891	48,229	10,969	37,260
1983 ...	219	6,326	1.79719	1.44022	47,352	11,390	35,962

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 489.-- GAS UTILITIES, BY ISLANDS: 1983

[Excludes bottled gas]

Island	Customers, Dec. 31			Gas sold (therms)		
	Total	Residential	Other	Total	Residential	Other
State total	32,880	28,933	3,947	31,307,400	6,337,853	24,969,547
Oahu	30,236	26,668	3,568	28,486,521	5,838,221	22,648,300
Hawaii	1,986	1,667	319	2,047,072	368,822	1,678,250
Kauai	276	276	-	64,532	64,532	-
Maui	382	322	60	709,275	66,278	642,997
Molokai	-	-	-	-	-	-
Lanai	-	-	-	-	-	-

Island	Average annual use (therms) 1/		Average rate (dollars per (therm)		Revenues ($1,000)		
	Residential	Other	Residential	Other	Total	Residential	Other
State total	219	6,326	1.79719	1.44022	47,352	11,390	35,962
Oahu	219	6,348	1.81360	1.45479	43,537	10,588	32,949
Hawaii	221	5,261	1.59814	1.30196	2,774	589	2,185
Kauai	234	-	1.62507	-	105	105	-
Maui	206	10,717	1.62680	1.28803	936	108	828
Molokai	-	-	-	-	-	-	-
Lanai	-	-	-	-	-	-	-

1/ Based on number of customers at end of year.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy, records.

Table 490.-- SERVICE PROVIDED BY HAWAIIAN ELECTRIC CO., INC., ON OAHU: 1973 TO 1983

Year	Number of customers, Dec. 31		Net input 1/ (1,000 kWh)	Power sold (1,000 kWh)	Average annual residential use 2/ (kWh)	Average residential rate (dollars per kWh)	Installed capacity 3/ (kW) Dec. 31
	Total	Residential only					
1973 ..	187,321	162,180	4,407,460	4,189,397	8,191	0.02812	1,005,200
1974 ..	194,043	168,525	4,641,204	4,393,616	8,110	0.03063	1,140,180
1975 ..	198,598	172,839	4,793,015	4,555,118	7,999	0.04313	1,140,180
1976 ..	201,974	175,581	5,038,978	4,761,592	8,102	0.04385	1,140,180
1977 ..	205,225	179,139	5,209,990	4,911,435	8,035	0.04810	1,140,180
1978 ..	209,907	183,519	5,331,724	5,025,540	7,875	0.05485	1,140,180
1979 ..	213,781	186,875	5,466,677	5,163,786	7,846	0.05813	1,140,180
1980 ..	217,142	189,771	5,525,998	5,266,522	7,661	0.07126	1,140,180
1981 ..	218,162	191,283	5,507,151	5,276,227	7,474	0.11364	1,275,160
1982 ..	222,636	194,468	5,441,941	5,164,332	7,068	0.12066	1,255,600
1983 ..	226,070	197,400	5,546,600	5,230,658	7,030	0.10631	1,200,000

1/ Net generated plus purchased power.
2/ Based on average number of customers during the year.
3/ Maximum generator nameplate. Figure for 1982 revised from *Data Book 1983*, table 421.
Source: Hawaiian Electric Co., Inc., records.

Table 491.-- RESIDENTIAL CUSTOMERS, VACANT UNITS, AND TURN-ONS, FOR HOUSING UNITS SERVED BY THE HAWAIIAN ELECTRIC COMPANY ON OAHU: 1978 TO 1983

Year	Residential customers, December	Vacant units, Dec.		Turn-ons, annual	
		Number	Ratio 1/	Number	Ratio 1/
1978	192,280	2,362	1.2	32,779	17.0
1979	201,013	1,297	0.6	32,419	16.1
1980 2/ .	232,745	2,662	1.1	20,499	8.8
1981 2/..	241,509	1,526	0.6	33,917	14.0
1982	227,506	1,366	0.6	20,581	9.0
1983	230,368	905	0.4	32,344	14.0

1/ Per 100 residential customers, December.
2/ Data may not be directly comparable to earlier years.
Source: Hawaiian Electric Co., Inc., records.

Table 492.-- GAS UTILITY SERVICE BY GASCO, INC., FOR OAHU: 1973 TO 1983

Calendar year	Customers, Dec. 31		Gas sold 1/ (1,000 therms)		Average annual residential usage 1/ (therms)
	Total	Residential	Total	Residential	
1973 ...	33,142	28,813	32,610	8,041	279
1974 ...	32,455	28,200	32,166	7,522	267
1975 ...	31,856	27,778	32,885	7,600	274
1976 ...	31,443	27,429	32,649	7,490	276
1977 ...	30,926	26,993	31,831	7,007	260
1978 ...	30,659	26,722	31,842	6,797	254
1979 ...	30,582	26,686	32,135	6,736	252
1980 ...	30,471	26,625	31,636	6,455	242
1981 ...	30,019	26,201	29,543	5,893	225
1982 ...	30,221	26,665	29,307	5,765	216
1983 ...	30,305	26,674	28,795	5,849	219

1/ Includes liquefied petroleum gas.
Source: Gasco, Inc., records.

Table 493.-- TYPICAL RESIDENTIAL UTILITY MONTHLY RATES, BY ISLANDS: JANUARY 1, 1984

[In dollars]

Utility and monthly use	Oahu	Hawaii 1/	Kauai	Maui	Molokai	Lanai
Water:						
5/8-inch meter, 5,000 gal.	6.13	8.20	7.60	9.70	9.70	4.00
5/8-inch meter, 10,000 gal. ...	10.33	12.35	11.20	15.40	15.40	6.75
1-inch meter, 20,000 gal.	19.85	24.65	20.40	35.05	33.05	13.50
1-1/2-inch meter, 50,000 gal. .	46.80	55.80	48.00	82.75	77.75	32.50
Electricity: 3/						
250 kilowatt-hours	32.20	32.70	40.71	34.93	57.21	43.06
500 kilowatt-hours	58.40	58.90	76.42	64.87	105.92	81.12
750 kilowatt-hours	84.60	85.10	112.13	94.80	154.62	119.18
1,000 kilowatt-hours	110.80	111.30	147.84	124.73	203.33	157.24
Gas: 2/						
10 therms	20.48	18.13	18.57	17.27	...	...
25 therms	42.20	37.83	38.93	35.68	...	...
50 therms	78.40	70.65	72.85	66.35	...	...
100 therms	150.80	136.30	140.70	127.70	...	...
Telephone: 3/						
Individual line	10.90	9.60	9.05	9.05	7.55	6.65
Two-party line	8.65	7.80	7.40	7.40	6.20	5.45

1/ Water rates are those for all districts except Kaloko Mauka Subdivision System; gas rates are for district of South Hilo.

2/ Includes fuel adjustment and customer charge.

3/ Excludes federal excise tax (3 percent for 1984) and the monthly rental for the telephone set.

Source: Hawaii State Department of Commerce and Consumer Affairs, Division of Consumer Advocacy; Honolulu Board of Water Supply; Hawaii County Department of Water Supply; Kauai County Department of Water; Maui County Department of Water Supply; Dole Company, Lanai City.

Table 494.-- LIQUID FUEL TAX BASE: 1973 TO 1983

[In thousands of gallons]

Year reported 1/	All types	Gasoline	Diesel oil	
			Non-hwy.	Hwy. use
1973	882,932	281,122	74,608	11,159
1974	824,653	270,267	75,124	11,539
1975	839,289	284,552	75,120	12,710
1976	850,261	295,704	79,884	13,561
1977	888,136	311,409	85,484	13,817
1978	917,380	324,702	99,755	15,233
1979	960,837	324,337	108,460	16,596
1980	939,766	312,896	101,719	17,765
1981	918,437	305,886	101,212	15,771
1982	893,288	308,600	88,312	17,303
1983	919,865	310,085	86,790	16,440

Year reported 1/	Liq. pet. gas		Aviation fuel	Small boats	
	Off-hwy.	Hwy. use		Gasoline	Diesel oil
1973	1,909	453	511,502	280	1,899
1974	2,093	789	463,728	312	801
1975	1,823	1,380	462,384	411	908
1976	1,858	1,054	456,819	464	917
1977	2,036	1,280	472,654	558	899
1978	1,821	1,216	473,270	445	938
1979	2,213	1,140	506,825	410	856
1980	2,448	1,140	502,544	338	917
1981	2,378	1,136	489,551	424	2,079
1982	2,628	960	474,477	207	802
1983	3,013	1,052	501,648	213	624

1/ Liquid fuel sold in a given month is usually reported the following month. Annual totals accordingly refer to fuel sold during a 12-month period ended November 30.

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution" (annual report).

Table 495.-- LIQUID FUEL TAX BASE, BY COUNTIES: 1983

[In thousands of gallons]

Type of fuel	State total	City and Co. of Honolulu	County of Maui	County of Hawaii	County of Kauai
Total	919,865	764,538	68,634	60,366	26,326
Gasoline	310,085	224,182	31,162	39,297	15,445
Diesel oil, non-hwy.	86,790	38,416	26,699	11,802	9,873
Diesel oil, hwy. use	16,440	11,826	1,290	2,636	689
Liq. pet. gas, off hwy. ..	3,013	2,254	281	386	92
Liq. pet. gas, hwy. use ..	1,052	845	63	110	34
Small boats, gasoline	213	141	-	72	-
Small boats, diesel oil ..	624	446	(Z)	178	-
Aviation fuel	501,648	486,429	9,141	5,885	194

Source: Hawaii State Department of Taxation, "Liquid Fuel Tax Base, Collections and Distribution, Year Ending December 31, 1983" (annual release).

Table 496.-- FUEL OIL AND KEROSENE DELIVERIES: 1982 AND 1983

[Thousands of barrels]

Use	Distillate fuel oil		Residual fuel oil		Kerosene	
	1982	1983	1982	1983	1982	1983
Total	4,570	4,762	13,323	12,228	-	-
Residential	-	-	-	-	-	-
Commercial	55	54	110	53	-	-
Industrial	83	82	254	123	-	-
Oil company	219	215	1,627	790	-	-
Electric utility	618	636	9,897	10,149	-	-
Farm	408	400	-	-	-	-
Military	2,102	2,202	240	166	-	-
Railroad	15	15	-	-	-	-
Vessel bunkering	65	64	860	785	-	-
On-highway	415	515	-	-	-	-
Off-highway	154	151	-	-	-	-
Other	436	428	335	162	-	-

Source: Energy Information Administration, Petroleum Supply Annual 1983, DOE/EIA-0340(83)/1, Vol. 1 (June 1984), pp. 124-129.

Table 497.-- GASOLINE PRICES PER GALLON CHARGED BY REPRESENTATIVE SERVICE STATIONS, FOR HONOLULU: 1903 TO 1973

[Cents per gallon, including taxes]

Date	Regular	Premium
1903: Dec.	37.5	...
1909: June 1	37.5	...
1913: Apr. 1	25.0	...
1915: Apr. 3	25.0	...
1918: May	20-25	...
1920: Aug.	28.5	...
1928: March	21.0	...
1930: June 13	21.5	24.5
June 14	18.5	21.5
1931: Dec. 3	18.0	...
1935: Sept. 5	20.0	24.0
Sept. 6	17.5	19.5
1943: June 3 1/	20.5	...
June 4 1/	21.3	...
Dec. 1/	21.3	...
1944: Dec. 1/	21.3	...
1945: Dec. 1/	21.3	...
1947: Jan. 21	22.0	24.0
Jan. 22	22.5	24.5
Dec. 29	25.7	27.7
Dec. 30	27.5	29.5
1953: Feb. 16	29.3	31.9
Feb. 17	32.5	34.6
1955: Feb. 24	32.5	36.1
Feb. 25	33.5	37.1
1956: Mar. 9	36.0	39.3
1960: Jan.	41.9	45.9
1965: Feb. 28	41.9	45.9
1969: Feb. 7	35.9-43.9	...
1973: Oct.	45.2	48.7

1/ Office of Price Administration maximum.

Source: Paradise of the Pacific, Dec. 1903, p. 50, and March 1928, p. 29; Hawaii Promotion Committee, Hawaii, A Primer, editions of 1909, 1913, and 1918; Honolulu Star-Bulletin, April 3, 1915, p. 11, and Feb. 7, 1969, p. A-9; Hawaii State Department of Planning and Economic Development, Gasoline Prices in Hawaii, 1920-1980 (Statistical Report 140, August 8, 1980).

Table 498.-- GASOLINE AVERAGE PRICES PER GALLON, FOR OAHU: 1973 TO 1984

[Dollars. Average prices include all applicable federal, state, and county taxes]

Date	All types 1/	Leaded regular 2/	Unleaded regular 3/	Leaded premium 2/
1973: Oct.	...	0.452	...	0.487
Dec.	...	.477	...	.512
1974: June	...	.599	...	.632
Dec.	...	.599	...	.629
1975: June	...	.673	...	.710
Dec.	...	.691	...	.733
1976: Jan.	...	.685	0.696	.727
June	...	.684	.692	.720
Dec.	...	.702	.714	.743
1977: June	...	.723	.738	.764
Dec.	...	.722	.743	.768
1978: June	...	.741	.772	.798
Revised series 4/				
1978: June	0.778	.761	.765	.793
Dec.	.804	.778	.791	.821
1979: June	.957	.922	.956	.970
Dec.	1.150	1.087	1.164	1.175
1980: June	1.352	1.310	1.350	1.383
Dec.	1.407	1.348	1.413	1.441
1981: June	1.580	1.508	1.588	1.619
Dec.	1.584	1.520	1.586	1.621
1982: June	1.512	1.454	1.511	1.556
Dec.	1.518	1.446	1.522	1.566
1983: June	1.455	1.391	1.450	1.506
Dec.	1.474	1.409	1.470	1.530
1984: June	1.497	1.425	1.490	...

1/ Includes types not shown separately. Not calculated before June 1978.

2/ Survey initiated October 1973. Leaded premium price not available after December 1983.

3/ Survey initiated January 1976.

4/ Not directly comparable to earlier data.

Source: U.S. Bureau of Labor Statistics, *Retail Prices and Indexes of Fuels and Utilities* (monthly, 1973-1978), *Consumer Prices: Energy and Food* (monthly, 1979 forward), and printouts for 1978-1979.

Table 499.-- GASOLINE SERVICE STATIONS: 1977 AND 1982

[Data are shown only for establishments with payroll]

Subject	State total	Oahu only
1977		
Number of establishments	381	276
Offering self-service sale of gasoline	55	47
Offering sale of diesel fuel	23	(NA)
Sales ($1,000)	172,799	131,285
Gallon sales (1,000):		
Gasoline, total	191,781	146,086
Through self-service	18,578	16,308
Other automotive fuels	3,734	3,548
Pumps, Dec. 31:		
Gasoline, total	2,006	1,595
Self-service	166	147
Other automotive fuel	40	23
1982		
Number of establishments	367	(NA)
Sales ($1,000)	406,064	(NA)
Annual payroll	28,830	(NA)
Paid employees for pay period including March 12	3,706	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 2, 3, 4, 5, and 6; 1982 Census of Retail Trade, RC82-I-12(P), Gasoline Service Stations (May 1984), p. 3.

Table 500.-- BUNKER OIL LADEN IN HONOLULU CUSTOMS DISTRICT ON VESSELS ENGAGED IN FOREIGN TRADE: 1982 AND 1983

[In barrels of 42 gallons]

Year	Total	American vessels		Foreign vessels	
		Fuel oil	Diesel oil	Fuel oil	Diesel oil
1982	1,072,715	45,995	33,366	504,811	488,543
1983	786,077	34,103	19,954	314,988	417,032

Source: U.S. Bureau of the Census, United States Foreign Trade, Bunker Fuels, Annual 1982 (FT810-82-13, March 1983) and Annual 1983 (FT810-83-13, March 1984).

Table 501.-- BOILERS AND PRESSURE VESSELS: DECEMBER 31, 1983

Island	Power boilers	Heating boilers 1/	Pressure vessels 2/
State total	628	2,652	5,162
Hawaii	86	232	792
Maui	59	220	515
Lanai	3	2	29
Molokai	7	29	30
Oahu	428	2,057	3,511
Kauai	45	112	285

1/ Decrease since 1982 is due to heat pump and solar water heating installations in which the hot water heating boilers are removed and only a storage tank is used for the hot water system.

2/ Five cubic feet or more.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupation Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 502.-- ENERGY GENERATED, PURCHASED, SOLD AND USED BY RAW SUGAR PLANTATIONS, BY ISLANDS: 1982

Subject	State total	Hawaii	Kauai	Maui	Oahu
Electricity (millions of kilowatt-hours)					
Generated	758.67	260.08	215.10	174.41	109.08
Purchased	31.50	2.44	2.09	3.34	23.63
Sold	343.13	161.09	119.22	60.08	2.74
Used 1/	447.04	101.43	97.97	117.67	129.97
Gross heat values of boiler fuels (billions of Btu's)					
All fuels	25,930	10,942	5,267	5,633	4,088
Bagasse	23,540	10,100	4,940	4,940	3,560
Fuel oil	2,083	803	275	686	319
Other fuels	307	39	52	7	209

1/ Includes transmission losses and electricity used to operate power plant auxiliaries.

Source: Hawaiian Sugar Planters' Association, unpublished data.

Table 503.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS, BY TYPE OF FUEL OR ENERGY: 1980 AND 1981

Subject	1980	1981
Purchased fuels and electric energy: 1/		
British thermal units (trillions)	13.3	14.0
Cost (million dollars)	76.5	97.4
Electric energy:		
Purchased:		
Quantity (million kWh)	556.1	402.8
Cost (million dollars)	29.6	37.6
Generated less sold (million kWh)	227.7	292.2
Purchased fuels:		
British thermal units (trillions)	11.3	12.6
Cost (million dollars)	46.7	59.8
Distillate fuel oil:		
Quantity (1,000 barrels)	(D)	(D)
Cost (million dollars)	(D)	(D)
Residual fuel oil:		
Quantity (1,000 barrels)	507.5	491.5
Cost (million dollars)	12.2	14.0
Natural gas:		
Quantity (billion cubic feet)	.3	(D)
Cost (million dollars)	.6	(D)
Liquefied petroleum gases:		
Quantity (million pounds)	2.7	5.4
Cost (million dollars)	.2	.3
Other fuels (million dollars)	2.5	2.6
Fuels not specified by kind (million dollars)	(D)	(D)

D Withheld to avoid disclosure of information pertaining to a specific organization.

1/ 1981 data revised from Data Book 1983, table 434.

Source: U.S. Bureau of the Census, 1980 Annual Survey of Manufactures, Fuels and Electric Energy Consumed, M80(AS)-4.2 (October 1982), pp. 42-43, and 1982 Census of Manufactures, Fuel and Electric Energy Consumed, MC82-S-4 (Part 2) (June 1983), table 3.

Table 504.-- PURCHASED FUELS AND ELECTRIC ENERGY USED FOR HEAT AND POWER BY MANUFACTURING ESTABLISHMENTS, BY MAJOR INDUSTRY GROUP: 1980 AND 1981

Industry group	British thermal units (trillions)		Cost (million dollars)	
	1980	1981	1980	1981
All manufacturing 1/	13.3	14.0	76.5	97.4
Food and kindred products 1/	5.2	5.0	30.5	34.3
Apparel and other textile products ..	.2	.1	2.4	1.5
Lumber and wood products	(Z)	.1	.3	.4
Printing and publishing	.2	.2	1.6	2.3
Chemicals and allied products	.1	.1	.9	1.2

Z Less than half the unit shown.

1/ 1980 data revised from Data Book 1983, table 435.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Fuels and Electric Energy Consumed, MC82-S-4 (Part 2) (June 1983), table 3.

Table 505.-- OCCUPIED HOUSING UNITS WITH SOLAR HEATING DEVICES, BY COUNTIES: 1981

County	Number	Percent
State total	19,292	6.8
Honolulu	12,197	5.4
Hawaii	1,848	6.3
Kauai	1,847	17.8
Maui	3,400	16.9

Source: Unpublished data from Hawaii State Department of Health, Hawaii Health Surveillance Program, compiled for Hawaii State Department of Planning and Economic Development, Division of Energy.

Table 506.-- FEDERAL OBLIGATIONS FOR RESEARCH AND DEVELOPMENT IN HAWAII: 1971 TO 1982

[Millions of dollars. For fiscal years ended June 30 through 1976 and September 30 thereafter]

Fiscal year	Federal obligations for R and D	Federal obligations for R and D plant
1971	38.3	2.2
1972	47.4	.9
1973	47.9	.4
1974	53.1	.4
1975	43.0	6.2
1976	45.5	2.8
1977	36.9	.5
1978	44.6	.7
1979	40.8	.5
1980	42.6	.2
1981	49.9	.7
1982	44.5	.1

Source: National Science Foundation, Federal Funds for Research and Development: Fiscal Years 1981, 1982, and 1983, Vol. XXXI, Final Report NSF 83-320, pp. 188-189.

Table 507.-- RESEARCH AND DEVELOPMENT EXPENDITURES AT UNIVERSITIES AND COLLEGES: 1975 TO 1982

[Thousands of dollars]

Fiscal year	Total R and D expenditures	Federally financed R and D expenditures
1975	24,596	15,540
1976	28,049	17,578
1977	28,900	17,945
1978 1/	31,971	19,781
1979	35,703	22,500
1980	40,593	25,833
1981	42,997	25,153
1982	43,439	26,616

1/ Data were collected only from doctorate-granting institutions.

Source: National Science Foundation, Academic Science/Engineering, R and D Funds, Fiscal Year 1982, NSF 84-308, pp. 26-27.

Table 508.-- PATENTS ISSUED TO HAWAII RESIDENTS: 1978 TO 1983

[Fiscal years ended September 30. Data include design, plant, and reissue patents]

Fiscal year	Patents
1978	41
1979	32
1980	32
1981	49
1982	31
1983	30

Source: U.S. Department of Commerce, Patent and Trademark Office, Commissioner of Patents and Trademarks Annual Report, Fiscal Year '83, p. 52.

Section 18

TRANSPORTATION

This section presents statistics relating to public roads, motor vehicles, bicycles, traffic accidents, local public transit, civil aviation, harbors, and water traffic.

Motor vehicle registration in Hawaii increased from 495,000 in 1974 to 717,000 in 1984. Vehicle miles rose during the same period from 3.9 billion to 6.5 billion. Hawaii residents purchased 45,500 new passenger cars and 6,600 trucks in 1983. By the end of that year, 575,000 licensed drivers had access to 4,073 miles of streets and highways throughout the State. Bus passengers carried by the Honolulu Mass Transit Lines increased from 37 million in 1973 to 75 million in 1983. Registered bicycles numbered 108,000 in 1974 and 71,000 in 1983.

Most scheduled interisland travel is now by air. In 1983, airlines and air taxis reported 7.0 million interisland passengers, more than two times their 1970 total, and carried 55,000 tons of cargo. The State has 8 commercial airports, 15 general aviation, military or semi-private airports, 10 civilian heliports, 3,327 active pilots, and about 426 active civil aircraft in general aviation.

Rapid growth is similarly evident in transpacific travel. Although surface passenger arrivals dropped from 54,000 in 1959 to 741 in 1983, air arrivals increased during the same 24-year span from 224,000 to 4.8 million. Overseas cargo received in the State in 1981 amounted to 51,000 tons by air and 9.4 million tons by ship.

Undocumented State-registered vessels as of December 31, 1983 numbered 12,604, compared with 12,049 in 1973. Median length was 18 feet, and four-fifths were stored on land. There were 1,203 documented vessels in the State in 1984, double the 1971 total.

The chief source for transportation statistics is the Hawaii State Department of Transportation and its Highways, Harbors and Airports Divisions. Other sources include the U.S. Coast Guard, Civil Aeronautics Board, Federal Aviation Administration, Federal Highway Administration, Army Corps of Engineers, Honolulu Department of Transportation Services and Department of Data Systems, County finance departments, Hawaii Automobile Dealers Association, and individual transportation companies. Data for the entire period of record through 1976 appear in Historical Statistics of Hawaii, Section 17. Similar statistics for other areas are reported in Statistical Abstract of the United States: 1984, Sections 22 and 23.

Table 509.-- LENGTH OF STREETS AND HIGHWAYS, PAVED AND UNPAVED, BY ISLANDS: DECEMBER 31, 1983

[Excludes private thoroughfares and military roads not regularly open to public use]

Island	Total 1/	Paved	Unpaved
State total	4,073.50	3,762.97	310.53
Hawaii	1,566.71	1,411.96	154.75
Maui	611.10	540.69	70.41
Lanai	45.83	31.83	14.00
Molokai	127.16	115.15	12.00
Oahu	1,374.66	1,338.06	36.60
Kauai	348.04	325.27	22.77
Niihau	-	-	-

1/ Includes 36.27 miles of freeway, all on Oahu.

Source: Hawaii State Department of Transportation, data provided September 19, 1984.

Table 510.-- HIGHWAY BRIDGES, BY ISLANDS: DECEMBER 31, 1983

Island	Number of bridges	Longest bridge		Highest bridge	
		Location	Length (feet)	Location	Height (feet)
State total	1,093	Pearl City Viad. .	5,946	Nanue	208
Hawaii ...	251	Hakalau	775	Nanue	208
Maui	150	Kalialinui	324	Uaoa	79
Lanai	-	None	...	None	...
Molokai ..	19	Manawainui	325	Manawainui	50
Oahu	592	Pearl City Viad. .	5,946	Kipapa	156
Kauai	81	Kalihiwai	798	Wahiawa, Koloa ..	90
Niihau ...	-	None	...	None	...

Source: Hawaii State Department of Transportation, Highways Division, information provided April 4, 1984.

Table 511.-- HIGHWAY TUNNEL LENGTHS: DECEMBER 31, 1983

Island and name of tunnel		Length (feet)
All tunnels		9,376
Oahu:		
Pali No. 1:	Inbound	1,000
	Outbound	1,080
Pali No. 2:	Inbound	500
	Outbound	497
Wilson:	Inbound	2,775
	Outbound	2,813
Middle Street (CD)		393
Maui:		
Olowalu		318

Source: Hawaii State Department of Transportation, Highways Division, information submitted April 4, 1984.

Table 512.-- SIGNALIZED INTERSECTIONS AND METERED PARKING SPACES, BY ISLANDS: DECEMBER 31, 1980

Island	Signalized intersections	Metered parking spaces	
		On-street	Off-street
State total	586	3,442	4,308
Hawaii	30	458	291
Maui	14	-	26
Lanai	-	-	-
Molokai	-	-	16
Oahu	537	2,984	3,887
Kauai	5	-	88
Niihau	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from State and County agencies.

Table 513.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1974 TO 1984

[Taxable and non-taxable, including military
non-resident exempt vehicles]

Year	All vehicles registered	Motor vehicles				
		All motor vehicles	Passenger vehicles 1/	Ambulances, hearses, patrol wagons	Buses
1974	510,627	495,037	420,228	90	1,951
1975	522,421	506,434	430,043	88	2,186
1976	551,438	535,217	452,616	82	2,624
1977	580,380	563,964	475,368	81	2,888
1978	599,990	583,601	489,878	84	3,052
1979	626,841	610,570	510,353	91	3,267
1980	633,846	617,571	514,669	85	3,366
1981	667,019	649,350	541,932	88	3,577
1982	689,468	671,513	566,060	80	3,863
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	735,458	717,171	599,845	68	4,034

Year	Motor vehicles -- continued				Trailers and semi-trailers
	Trucks 1/	Truck tractors, tow trucks	Truck crane, misc.	Motorcycles, motor scooters 2/	
1974	59,759	1,796	766	10,447	15,590
1975	63,134	1,877	733	8,373	15,987
1976	68,215	1,866	680	9,134	16,221
1977	73,762	1,848	609	9,408	16,416
1978	78,447	1,809	560	9,771	16,389
1979	84,578	1,784	511	9,986	16,271
1980	87,542	1,725	488	9,696	16,275
1981	90,954	1,641	458	10,700	17,669
1982	88,410	1,395	388	11,317	17,955
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	101,233	1,428	364	10,199	18,287

Footnotes and source on next page.

Table 513.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE: 1974 TO 1984 -- Con.

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

2/ Excluding mopeds (1.5 HP or less), which are legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 514.-- MOTOR VEHICLES REGISTERED, BY COUNTIES: 1974 TO 1984

[Taxable and non-taxable, including military non-resident exempt vehicles. Includes passenger cars, buses, trucks, and motorcycles but excludes trailers and semi-trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974	495,037	381,502	51,064	22,802	39,669
1975	506,434	387,558	53,124	23,764	41,988
1976	535,217	406,149	57,151	25,300	46,617
1977	563,964	424,892	60,374	26,920	51,778
1978	583,601	436,347	63,025	27,614	56,615
1979	610,570	452,449	67,718	29,492	60,911
1980	617,571	454,316	70,047	30,604	62,604
1981	649,350	476,995	75,812	32,932	63,611
1982	671,513	495,629	77,024	33,931	64,929
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	717,171	525,599	80,840	35,236	75,496

NA Not available.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 515.-- PASSENGER VEHICLES REGISTERED, BY COUNTIES: 1974 TO 1984

[Taxable and non-taxable, including military non-resident exempt vehicles. Excludes ambulances, hearses, buses, trucks, motorcycles, and trailers]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974	420,228	331,266	39,428	18,135	31,399
1975	430,043	336,953	41,048	18,873	33,169
1976	452,616	352,148	43,826	19,882	36,760
1977	475,368	367,398	46,072	21,001	40,897
1978	489,878	376,260	47,764	21,411	44,443
1979 1/ ...	510,353	388,788	51,159	22,790	47,616
1980	514,669	389,576	52,682	23,561	48,850
1981	541,932	409,305	57,397	25,363	49,867
1982	566,060	429,244	59,103	26,297	51,416
1983	(NA)	(NA)	(NA)	(NA)	(NA)
1984	599,845	447,872	63,182	27,376	61,415

NA Not available.

1/ Beginning in 1979, vans and other trucks under 6,500 lb. in personal use were legally classified as passenger vehicles, but the 1979 and subsequent data shown here have been adjusted to continue inclusion of such vehicles in the totals for trucks.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulations.

Table 516.-- VEHICLE REGISTRATION, BY TYPE OF VEHICLE, FOR COUNTIES: 1984

[Taxable and non-taxable, including military non-resident exempt vehicles]

Type of vehicle	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
All vehicles	735,458	535,449	85,077	37,202	77,730
Motor vehicles	717,171	525,599	80,840	35,236	75,496
Passenger vehicles 1/	599,845	447,872	63,182	27,376	61,415
Ambulances 2/	68	50	11	3	4
Buses	4,034	3,148	266	188	432
Trucks 1/, ...	101,233	65,377	15,944	7,255	12,657
Truck tractors 3/	1,428	757	334	137	200
Truck cranes 4/	364	151	97	41	75
Motorcycles 5/	10,199	8,244	1,006	236	713
Trailers and semi-trailers ..	18,287	9,850	4,237	1,966	2,234

1/ Vans and other trucks under 6,500 lb. in personal use, legally classified as passenger vehicles, are included in the trucks category.

2/ Including hearses and patrol wagons.

3/ Including tow trucks.

4/ Including miscellaneous vehicles.

5/ Including motorscooters but excluding mopeds (1.5 HP or less), legally classified as bicycles.

Source: City and County of Honolulu, Department of Data Systems, unpublished tabulation.

Table 517.-- AUTOMOBILES, TRUCKS, AND VANS AVAILABLE TO OCCUPIED HOUSING UNITS, BY COUNTIES: 1980

Number and type of vehicles available	The State	Hawaii	Honolulu	Kalawao	Kauai	Maui
Occupied housing units .	294,052	29,237	230,214	71	12,020	22,510
Total:						
None	30,509	2,463	25,628	8	788	1,622
1	115,357	9,193	95,735	18	3,209	7,202
2	94,699	10,775	71,456	25	4,440	8,003
3 or more	53,487	6,806	37,395	20	3,583	5,683
Automobiles:						
None	34,409	3,460	27,625	14	1,086	2,224
1	134,764	13,994	105,944	41	4,860	9,925
2	91,400	8,700	71,137	15	4,274	7,274
3 or more	33,479	3,083	25,508	1	1,800	3,087
Trucks or vans:						
None	238,462	18,112	198,141	29	7,323	14,857
1	50,555	9,657	29,748	28	4,256	6,866
2	4,218	1,206	2,038	13	334	627
3 or more	817	262	287	1	107	160

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 61 and 94.

Table 518.-- NEW PASSENGER CARS AND MOTOR TRUCKS REGISTERED: 1979 TO 1983

Year	Total	Passenger cars	Motor trucks
1979	48,371	40,481	7,890
1980	46,664	37,104	9,560
1981	46,995	39,188	7,807
1982	44,489	37,137	7,352
1983	52,927	42,772	10,155

Source: R.L. Polk and Co., cited in Motor Vehicle Manufacturers Association of the United States, Inc., MVMA Motor Vehicle Facts and Figures for 1981 (p. 15), 1983 (p. 20), and 1984 (p. 18).

Table 519.-- COMPONENTS OF CHANGE IN PASSENGER VEHICLE REGISTRATION: 1978 TO 1983

Year	Net increase since previous year	New cars registered	Scrapped or shipped out
1978 ..	14,510	44,383	29,873
1979 ..	20,475	40,481	20,006
1980 ..	4,316	37,104	32,788
1981 ..	27,263	39,188	11,925
1982 ..	24,128	37,137	13,009
1983 ..	(NA)	42,772	(NA)

NA Not available.

Source: Net increase from City and County of Honolulu, Department of Data Systems, unpublished tabulations. New cars registered from R. L. Polk and Co. data in the Federal Reserve Bank of San Francisco, Western Economic Indicators, November-December 1979, p., A-10, and Motor Vehicle Manufacturers Association of the United States, MVMA Motor Vehicle Facts and Figures (annual). Vehicles scrapped or shipped out of State computed as a residual.

Table 520.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY MAKE, 1983, AND RANK, 1982 AND 1983

Rank		Make	New registrations, 1983		
1982	1983		Total	Passenger cars	Trucks
...	...	All makes	52,123	45,509	6,614
2	1	Toyota	8,497	7,712	785
1	2	Datsun	8,153	7,089	1,064
3	3	Ford	7,127	5,237	1,890
7	4	Chevrolet	4,391	3,318	1,073
5	5	Mazda	3,834	3,517	317
4	6	Honda	3,818	3,818	-
8	7	Dodge	2,264	1,815	449
9	8	Buick	2,042	2,042	-
6	9	Mercury	1,926	1,926	-
14	10	Oldsmobile	1,559	1,559	-
10	11	Subaru	1,000	967	33
12	12	Pontiac	997	997	-
11	13	Volkswagen	958	929	29
23	14	Isuzu	725	404	321
16	15	Plymouth	653	623	30
15	16	Lincoln	575	575	-
25	17	GMC	514	157	357
13	18	Suzuki	513	497	16
17	19	Cadillac	416	416	-
18	20	Chrysler	329	329	-
19	21	BMW	315	315	-
20	22	Jeep	287	264	23
22	23	Volvo	252	252	-
21	24	Mercedes	228	228	-
26	25	Audi	77	77	-
24	26	AMC	72	72	-
27	27	Porsche	59	59	-
...	...	Miscellaneous	542	315	227

Source: Hawaii Automobile Dealers Association, HADA Yearbook 1983-84.

Table 521.-- NEW PASSENGER CAR AND TRUCK REGISTRATIONS, BY PLACE OF MANUFACTURE: 1982 AND 1983

[Percent distributions]

Place of manufacture	All types		Passenger cars		Trucks	
	1982	1983	1982	1983	1982	1983
Total ...	100.0	100.0	100.0	100.0	100.0	100.0
Imports:						
Japanese ...	53.0	50.1	54.2	51.9	43.9	38.3
European ...	4.1	3.6	4.5	4.1	1.1	0.4
Domestics	41.8	44.1	40.6	42.1	51.3	57.8
Not reported .	1.1	2.1	0.7	1.9	3.7	3.4

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1983-84.

Table 522.-- NEW PASSENGER CAR AND TRUCK SALES, BY COUNTIES: 1983

Type	State total	Honolulu	Maui	Hawaii	Kauai
Passenger cars ...	45,509	35,413	4,626	4,161	1,309
Trucks	6,614	5,617	311	378	308

Source: Hawaii Automobile Dealers' Association, HADA Yearbook 1983-84.

Table 523.-- HAWAII DRIVERS LICENSES IN FORCE: 1973 TO 1983

[As of December 31]

Year	State total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1973	495,043	399,672	45,530	20,033	32,808
1974	509,236	409,977	43,907	20,815	34,537
1975	531,375	425,370	46,891	22,153	36,961
1976	541,180	429,559	49,184	22,662	39,775
1977	541,353	424,242	51,773	23,557	41,781
1978	541,263	420,005	54,504	24,381	43,373
1979	543,202	418,751	53,735	25,606	45,110
1980	541,842	411,102	57,780	26,333	46,627
1981	541,279	407,062	60,171	27,261	46,785
1982	561,345	419,468	63,610	28,446	49,821
1983	574,533	428,897	64,560	29,169	51,907

Source: Hawaii State Department of Transportation, Highways Division, information submitted April 4 1984.

Table 524.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES: 1974 TO 1984

Year	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
1974	279,996	574	3,919.9	8,038
1975	296,160	590	4,146.2	8,263
1976	308,151	574	4,314.1	8,041
1977	324,449	578	4,542.3	8,088
1978	338,440	583	4,738.2	8,164
1979	339,989	560	4,759.9	7,834
1980	330,734	536	5,570.0	9,019
1981	319,588	492	5,855.7	9,018
1982	323,827	482	6,048.3	9,007
1983	327,769	(NA)	(NA)	(NA)
1984	339,491	473	6,486.3	9,044

Footnotes and source follow next table.

Table 525.-- MOTOR VEHICLE FUEL CONSUMPTION AND VEHICLE MILES, BY COUNTIES: 1984

County	Highway fuel consumption 1/		Vehicle miles of travel 2/	
	Total (1,000 gallons)	Gallons per vehicle 3/	Total (millions)	Per vehicle 3/
State total ..	339,491	473	6,486.3	9,044
Honolulu	242,775	465	4,616.1	8,846
Hawaii	43,933	534	805.5	9,791
Kauai	16,560	450	381.5	10,363
Maui	36,223	475	683.2	8,960

NA Not available.

1/ Includes gasoline, gasohol, diesel oil, and butane gas.

2/ Beginning in 1980, based on weighted annual average vehicle miles traveled per type of vehicle by county of inspection, developed from a sampling of the 1978 and 1979 vehicle safety inspection records. Data for 1979 and earlier years based on an average of 14 miles per gallon and thus not comparable to 1980 and later figures.

3/ Based on motor vehicle total by county of inspection; includes both taxable and nontaxable vehicles, and all military nonresident exempt vehicles. Data include passenger cars, buses, trucks, and motorcycles but exclude trailers and semi-trailers.

Source: Hawaii State Department of Transportation, Highways Division, annual releases and records.

Table 526.-- AVERAGE SPEEDS ON HIGHWAYS, BY TYPE: 1978 TO 1983

[In miles per hour. Years ended September 30]

Year	State-wide	Urban inter-state	Rural		
			Inter-state	Other arterials 1/	Major collec-tors 2/
1978	(NA)	54.1	56.3	52.6	52.0
1979	(NA)	54.8	55.7	53.3	53.2
1980	(NA)	53.3	54.5	51.6	51.8
1981	53.0	54.0	55.1	51.1	52.8
1982	54.1	56.6	56.2	51.5	52.4
1983	54.0	56.7	56.5	51.6	51.8

NA Not available.

1/ Data for 1978, 1979 and 1980 refer to multi-lane divided, except interstate.

2/ Data for 1978, 1979 and 1980 refer to two-lane rural.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics (annual).

Table 527.-- HIGHWAY SPEEDS, BY TYPE OF HIGHWAY: OCTOBER 1982 TO SEPTEMBER 1983

Measurement	State-wide	Urban: inter-state	Rural		
			Inter-state	Other arter-ials 1/	Major collect-ors
Miles per hour:					
Average speed	54.0	56.7	56.5	51.6	51.8
Median speed	54.5	57.0	57.3	52.1	52.1
85th percentile speed	60.9	63.5	63.4	58.5	58.4
Percent exceeding --					
55 miles per hour	36.7	55.2	58.3	20.4	12.4
60 miles per hour	17.6	25.5	23.8	10.1	14.7
65 miles per hour	5.5	8.8	6.3	2.8	5.3

1/ Principal and minor arterials, except interstate.

Source: U.S. Department of Transportation, Federal Highway Administration, Highway Statistics 1983, pp. 173-174.

Table 528.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS: 1973 TO 1983

Year	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
1973	19,544	119	11,860	136
1974	14,855	119	10,022	129
1975	13,895	130	10,554	146
1976	14,860	137	11,667	149
1977	16,188	139	12,245	154
1978	18,545	175	13,327	195
1979	19,158	183	13,963	205
1980	18,301	165	13,026	185
1981	16,582	136	11,999	150
1982	16,407	143	11,865	161
1983	16,372	131	11,852	139

1/ Traffic accidents with damage of $300 or more ($100 or more before July 1, 1974) or causing injury or death.

Source follows next table.

Table 529.-- MAJOR TRAFFIC ACCIDENTS, TRAFFIC INJURIES, AND TRAFFIC DEATHS, BY COUNTIES: 1983

County	Major traffic accidents 1/		Persons injured or killed	
	Total	Fatal	Injured only	Killed
State total ..	16,372	131	11,852	139
Honolulu	12,284	86	8,747	91
Hawaii	1,951	24	1,607	26
Kauai	741	7	459	8
Maui	1,396	14	1,039	14

1/ Traffic accidents with damage of $300 or more or causing injury or death.

Source: Hawaii State Department of Transportation, Highways Division, Major Traffic Accidents, State of Hawaii (annual) and records.

Table 530.-- COMMUTING: 1980

Commuting characteristics	State total	Oahu	Other islands
MEANS OF TRANSPORTATION TO WORK			
Workers 16 years and over	457,717	369,523	88,194
Private vehicle	359,207	282,479	76,728
Drive alone: Car	225,767	179,823	45,944
Truck or van	27,401	15,904	11,497
Carpool: Car	93,203	78,997	14,206
Truck or van	12,836	7,755	5,081
Public transportation	38,100	37,042	1,058
Bus or streetcar	37,362	36,447	915
Subway or elevated train	32	32	-
Railroad	6	6	-
Taxicab	700	557	143
Bicycle	5,021	4,679	342
Motorcycle	2,979	2,740	239
Walked only	37,112	31,069	6,043
Other means	6,445	5,134	1,311
Worked at home	8,853	6,380	2,473
PRIVATE VEHICLE OCCUPANCY			
Workers 16 years and over using private vehicles	359,207	282,479	76,728
Drive alone	253,168	195,727	57,441
In 2-person carpool	72,188	59,311	12,877
In 3-person carpool	19,417	16,642	2,775
In 4-person carpool	7,828	6,373	1,455
In 5-or-more-person carpool	6,606	4,426	2,180
Persons per private vehicle	1.20	1.21	1.17
TRAVEL TIME TO WORK			
Workers 16 years and over who did not work at home	448,492	362,086	86,406
Less than 10 minutes	76,444	51,687	24,757
10 to 19 minutes	145,010	113,454	31,556
20 to 29 minutes	89,345	76,166	13,179
30 to 44 minutes	87,941	77,414	10,527
45 or more minutes	49,752	43,365	6,387
Mean .... minutes	21.5	22.6	17.2
Workers traveling 45 or more minutes .... minutes	55.3	55.0	57.3

Source: U.S. Bureau of the Census, 1980 Census of Population, General Social and Economic Characteristics, Hawaii, PC80-1-C13 (June 1983), table 65.

Table 531.-- AUTOMOTIVE RENTAL AND LEASING (WITHOUT DRIVERS) ESTABLISHMENTS, BY COUNTIES: 1982

[Limited to establishments with payroll]

Subject	State total	Hono-lulu	Hawaii	Kauai	Maui
Number of establishments ..	90	45	16	10	19
Receipts ($1,000)	137,954	80,805	15,112	11,081	30,956

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3, 13, 18, and 19.

Table 532.-- REGISTERED TAXIS AND BICYCLES, BY ISLANDS: 1982 AND 1983

[As of December 31]

Island	Taxicabs		Bicycles	
	1982	1983	1982	1983
State total	1,730	1,726	62,017	70,678
Hawaii	76	81	2,467	2,805
Maui	123	123	1,903	2,535
Lanai	2	2	174	152
Molokai	2	-	110	177
Oahu	1,481	1,467	56,173	62,842
Kauai	46	53	1,190	2,167
Niihau	-	-	-	-

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the County Departments of Finance.

Table 533.-- STEAM RAILROAD MILEAGE AND PASSENGERS: 1978 TO 1983

[Data are for the Lahaina, Kaanapali and Pacific Rail Road, the only passenger railroad in the State]

Calendar year	Miles of track	Passengers
1978	6	94,115
1979	6	103,206
1980	6	111,600
1981	6	125,640
1982	6	155,059
1983	6	172,352

Source: Lahaina, Kaanapali and Pacific Rail Road, data submitted March 15, 1984.

Table 534.-- BUS PASSENGERS, BY FARE CATEGORY, FOR OAHU: 1981 TO 1983

[Calendar year data for City and County of Honolulu bus system]

Fare category	1981	1982	1983
All passengers	73,546,802	74,109,528	75,051,618
Adults, full fare	38,743,828	39,538,266	40,401,159
Students	16,483,937	15,967,924	15,037,474
School subsidy	209,827	235,927	284,620
Stadium express	16,376	18,828	16,370
Senior citizens and handicapped	9,579,937	9,632,807	11,606,059
Chartered service	11,131	9,259	5,718
Free transfers	8,501,766	8,706,517	7,700,218

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 535.-- BUS SERVICE, FOR OAHU: 1970 TO 1983

[Service provided by Honolulu Rapid Transit Co., Ltd., through December 31, 1970 and by City and County of Honolulu beginning March 1, 1971]

Year	Number of buses, Dec. 31	Bus mileage 1/	Passengers 2/
1970 3/	141	4,611,357	30,434,906
1971 4/	108	2,986,724	19,413,259
1972	143	4,964,044	31,031,764
1973	315	7,973,393	36,741,009
1974	333	11,670,774	50,519,626
1975	350	13,328,501	58,295,732
1976	350	15,547,127	64,585,334
1977	350	16,242,537	66,311,882
1978	350	15,991,798	67,746,396
1979	350	15,915,000	68,765,000
1980	400	16,579,392	71,601,744
1981	400	16,748,338	73,546,802
1982	400	16,767,816	74,109,528
1983	395	16,654,568	75,051,618

1/ All categories of service through 1978 and revenue vehicle miles (estimated) thereafter. Calendar year data.

2/ All categories of service through 1978 and revenue passengers (including senior citizens and handicapped) as estimated thereafter. Calendar year data.

3/ Passenger total excludes 2,277,502 zone fares.

4/ Bus service by HRT was terminated by a strike that began January 1. The City and County of Honolulu commenced service March 1.

Source: MTL, Inc., data provided by the City and County of Honolulu, Department of Transportation Services.

Table 536.-- BUS REVENUES AND FARES, FOR OAHU: 1973 TO 1983

[Data for the City and County of Honolulu bus system]

Year	Revenues 1/ (dollars)	Cash fares, June 30 (cents)	
		Full	School
1973	5,254,908	25/50	10/25
1974	6,807,147	25	10
1975	7,990,505	25	10
1976	9,007,134	25	10
1977	9,629,349	25	10
1978	9,686,876	25	10
1979	9,931,000	25	10
1980 2/	17,388,760	50	25
1981	17,991,735	50	25
1982	18,269,144	50	25
1983	18,157,876	50	25

1/ Fiscal years ending June 30 through 1979 and calendar years 1980 and thereafter.

2/ New fare structure, including a monthly pass program, effective November 1, 1979. Regular monthly passes cost $15.00; student passes $7.50.

Source: Data from MTL, Inc., provided by the City and County of Honolulu, Department of Transportation Services.

Table 537.-- AIRPORTS AND HELIPORTS, BY CONTROL, BY ISLANDS: DECEMBER 31, 1983 AND 1984

Island	Airports 1/				Heliports 2/	
	State					
	Commercial	General aviation	Military	Semiprivate	State: commercial	Semiprivate
State total	8	6	6	3	1	9
Hawaii	3	1	1	1	-	4
Maui	1	1	-	1	-	2
Kahoolawe	-	-	-	-	-	-
Lanai	1	-	-	-	-	-
Molokai	1	1	-	-	-	-
Oahu	1	2	3	-	1	-
Kauai	1	1	1	1	-	3
Niihau	-	-	-	-	-	-
French Frigate Shoals	-	-	-	-	-	-
Kure Atoll	-	-	1	-	-	-

1/ Excludes private airports (not available). Changes between 1981 and 1983 reflect the reclassification of Hana and Kalaupapa Airports from commercial to general aviation and the abandonment of the French Frigate Shoals airstrip.

2/ Excludes military and private heliports (not available).

Source: Hawaii State Department of Transportation, Airports Division, information provided January 9, 1984 and January 23, 1985.

Table 538.-- AIRCRAFT OPERATIONS FOR SPECIFIED AIRPORTS: 1973 TO 1983

[An aircraft operation is an aircraft arrival or departure]

Year	Honolulu International Airport	General Lyman Field, Hilo	Keahole Airport	Kahului Airport	Lihue Airport
1973	309,144	48,138	38,246	74,443	57,649
1974	305,724	47,715	40,759	74,883	50,821
1975	319,776	51,145	40,622	77,062	53,356
1976	320,565	52,982r	58,425	90,455	58,865
1977	329,926	60,377	83,616	100,655	65,636
1978	379,106	52,677	91,033	125,291	74,583
1979	412,739	51,703	92,235	127,477	71,033
1980	375,408	49,969	66,944	111,573	62,829
1981	339,359	53,274	57,488	102,760	59,404
1982	308,728	47,964	51,889	112,428	65,305
1983	333,038	54,470	66,581	124,288	71,739

r Revised from Data Book 1983, table 466.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), pp. 50, 69, 76, 84, and 98.

Table 539.-- AIRCRAFT OPERATIONS, BY TYPE OF AIRCRAFT, AT MAJOR STATE OWNED AIRPORTS: 1983

Airport	All movements	Air carrier	Air taxi	General aviation	Military
Honolulu International ..	333,038	139,875	75,297	88,657	29,209
Gen. Lyman	54,470	13,466	6,853	21,260	12,891
Kahului	124,288	57,425	28,588	28,172	10,103
Lihue	71,739	17,190	44,838	8,272	1,439
Keahole	66,581	15,621	22,731	17,732	10,497
Molokai	54,882	4,407	37,034	11,114	2,327

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), p. 7.

Table 540.-- U.S. ACTIVE CIVIL AIRCRAFT AND GENERAL AVIATION HOURS FLOWN: 1978 TO 1983

Year	U.S. active civil aircraft, Dec.			Hours flown by general aviation aircraft 1/	
	Air carrier 2/	General aviation 1/			
		Number	Standard error	Number (1,000)	Standard error (1,000)
1978	18	475	262	202	128
1979	19	530	130	255	76
1980	17	385	123	157	66
1981	18	623	181	288	131
1982	20	426	158	86	34
1983	21	381	152	97	34

1/ For aircraft based in Hawaii. Data based on samples with specified standard errors.

2/ Aloha and Hawaiian.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 541.-- ACTIVE PILOTS, FLIGHT INSTRUCTORS, AND NONPILOT AIRMEN IN THE PACIFIC REGION, 1978 TO 1980, AND HAWAII, 1981 TO 1983

[As of December 31. Data prior to 1981 include American Samoa, Guam, Northern Mariana Islands, and Trust Territory of the Pacific Islands, as well as Hawaii. Data for 1981 and later years are limited to Hawaii]

Year	Active pilots	Active flight instructors	Active nonpilot airmen 1/
1978	3,586	256	2,797
1979	3,972	280	2,897
1980	3,948	314	3,003
1981	3,532	276	2,965
1982	3,327	291	3,118
1983	3,224	260	3,099

1/ Mechanics, parachute riggers, ground instructors, dispatchers, control tower operators, flight navigators, and flight engineers.

Source: Federal Aviation Administration, FAA Statistical Handbook of Aviation (annual), and records.

Table 542.-- TRANSPACIFIC AND INTERISLAND AIR CARRIERS SERVING HAWAII: 1983 AND 1984

[As of June 30. Includes both scheduled and nonscheduled services; excludes commuter lines and other air taxi service]

Service	1983	1984
All air carriers 1/	35	31
Transpacific	31	29
Domestic	18	16
Foreign	13	13
Interisland	4	4
Passenger carriers	3	3
Cargo and mail only	1	1

1/ Unduplicated total. Two carriers provided both transpacific and interisland service in 1984.

Source: Hawaii State Department of Transportation, Airports Division, July 10, 1984; Hawaii Visitors Bureau, July 5, 1983.

Table 543.-- SEATS, PASSENGERS, AND LOAD FACTORS FOR SCHEDULED FLIGHTS BETWEEN HAWAII AND THE MAINLAND: 1976 TO 1981

[Based on data for eight airlines. Compilation of these series was discontinued after 1981]

Year	Revenue seats available	Revenue passengers	Load factor (percent)
1976	6,660,621	4,324,093	64.9
1977	7,342,217	4,597,979	62.6
1978	7,355,562	5,307,306	72.2
1979	7,475,246	5,642,474	75.5
1980	7,431,600	5,109,531	68.8
1981	7,314,063	5,080,049	69.4

Source: Data compiled by the Hawaii Visitors Bureau from Aviation Daily magazine.

Table 544.-- TRANSPACIFIC AND INTERISLAND AIR PASSENGER MOVEMENTS: 1973 TO 1983

[Calendar years. Data include both revenue and non-revenue passengers]

Year	Transpacific passengers			Inter-island passenger arrivals 1/
	Arrivals	Departures	Through	
1973 ..	2,866,003	2,913,446	870,378	4,809,097
1974 ..	3,009,769	2,964,992	885,122	5,174,914
1975 ..	3,181,580	3,134,774	956,576	5,321,616
1976 ..	3,496,645	3,432,908	816,915	5,873,138
1977 ..	3,667,756	3,615,717	714,150	6,413,847
1978 ..	4,131,466	4,054,544	854,276	7,341,815
1979 ..	4,245,032	4,148,645	971,452	7,578,877
1980 ..	4,270,633	4,174,739	1,118,987	6,737,894
1981 ..	4,290,752	4,292,159	1,032,264	6,724,113
1982 ..	4,669,747	4,641,716	882,832	7,327,447
1983 ..	4,760,459	4,714,689	777,490	7,037,687

1/ Air taxi service was seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), p. 7, and earlier reports, tabular releases, and records.

Table 545.-- CHARACTERISTICS OF INTRA-HAWAII CERTIFICATED ROUTE AIRLINES: 1981 TO 1983

Subject	1981	1982	1983
Number of airlines 1/	2	2	2
Aircraft revenue departures 2/ (1,000)	73.4	71.8	76.4
Aircraft revenue miles 2/ (1,000)	8,843	8,678	8,788
Average airborne speed 2/ (miles per hour)	321	310	301
Average available seats per aircraft mile flown 2/	133.7	134.6	129.4
Revenue passengers: 2/			
Enplanements (1,000)	5,531	5,596	4,826
Load factor (percent)	60.7	63.0	55.6
Revenue ton-miles (1,000): 2/			
Freight	1,993	1,816	1,712
Mail	1,019	1,089	985
Number of employees 3/	2,203	1,882	1,615
Operating revenues ($1,000)	183,987	176,375	174,325
Operating profit or loss ($1,000)	-5,554	-6,317	5,055
Average passenger revenues per revenue passenger-mile 2/ (cents)	23.8	22.6	24.7
Average freight revenues per revenue ton-mile 2/ (dollars)	2.58	2.96	3.33

1/ Aloha Airlines, Inc., and Hawaiian Airlines, Inc.

2/ Scheduled service only.

3/ Weighted year average.

Source: Civil Aeronautics Board, CAB Form 41 schedules submitted by air carriers to CAB.

Table 546.-- AIR CARGO AND AIRMAIL: 1973 TO 1983

[In thousands of pounds]

Calendar year	Overseas air cargo		Overseas airmail		Interisland 1/	
	Out-going	In-coming	Out-going	In-coming	Air cargo: incoming	Airmail: incoming
1973	57,494	87,834	16,123	21,001	69,710	16,453
1974	79,054	96,393	16,185	21,528	79,576	16,594
1975	95,287	112,338	36,934		81,515	17,830
1976	118,478	136,017	39,407		86,818	19,024
1977	132,401	133,352	36,938		82,676	17,065
1978	139,004	135,347	37,061		82,872	15,199
1979	121,702	121,205	17,497	17,577	118,555	15,364
1980	130,586	114,673	21,105	19,581	138,008	13,576
1981	151,513	101,301	22,388	19,887	132,559	14,131
1982	155,278	105,388	21,280	25,006	114,038	15,014
1983	174,582	136,354	23,620	28,288	109,828	16,024

1/ Air taxi service seriously underreported before 1977.

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), p. 7, and earlier reports, tabular releases, and records.

Table 547.-- PASSENGERS, CARGO, AND MAIL, BY AIRPORT: 1983

Airport	Passengers 1/		Cargo (tons)		Mail (tons)	
	Enplaned	Deplaned	Enplaned	Deplaned	Enplaned	Deplaned
OVERSEAS						
Total	4,714,689	4,760,459	87,291	68,177	11,810	14,144
Honolulu	4,517,668	4,544,830	84,677	67,066	11,589	14,144
General Lyman ...	33,706	28,871	2,350	744	221	-
Kahului	152,124	168,961	180	188	-	-
Keahole	11,191	17,797	84	179	-	-
INTERISLAND						
Total	7,037,687	7,037,687	54,914	54,914	8,012	8,012
Honolulu	3,093,697	3,105,798	33,124	18,530	4,807	3,136
General Lyman ...	466,277	517,794	11,829	7,693	1,146	1,284
Upolu	780	821	-	-	-	-
Waimea-Kohala ...	4,264	4,466	2	6	-	-
Keahole	628,839	569,972	3,203	3,964	444	795
Kahului	1,674,588	1,669,065	3,778	15,984	1,073	1,762
Hana	9,052	8,981	-	-	-	-
Kaanapali	67,302	64,574	-	-	-	-
Molokai	118,654	120,139	138	220	47	22
Kalaupapa	4,036	4,031	-	-	-	-
Lanai	22,401	22,543	2	13	9	-
Lihue	935,016	936,742	2,837	8,494	486	1,013
Other airports ..	12,781	12,761	1	10	-	-

[1] Revenue and non-revenue, excluding Military Airlift Command (MAC). Also excludes overseas passengers in transit (773,470 through Honolulu International Airport and 4,020 through General Lyman).

Source: Hawaii State Department of Transportation, Airports Division, Airport Statistics for 1983, Statewide Airport System (April 1984), p. 7.

Table 548.-- AIRLINE PASSENGER ORIGINS AND DESTINATIONS: 1983

[Year ended December 31, 1983. Top city pairs originating or terminating passengers and revenue passenger-miles, ranked by passengers. Data limited to domestic operations in scheduled service. Figures are combined totals in both directions]

City pair in both directions 1/ (in order of passenger rank)	Inter-city distance (miles)	Passengers		Passenger-miles	
		U.S. rank	Number (1,000)	U.S. rank	Number (1,000)
Honolulu-Kahului	100	12	1,107	316	110,949
Honolulu-Los Angeles	2,568	14	1,026	3	2,640,418
Honolulu-Lihue	102	21	830	408	87,757
Honolulu-Hilo	216	39	590	264	128,796
Honolulu-San Francisco	2,399	44	572	8	1,385,506
Honolulu-Kona	169	59	473	429	83,568
Honolulu-New York	4,971	144	250	12	1,254,249
Honolulu-Seattle	2,678	168	214	36	597,739
Kahului-Los Angeles	2,498	252	151	65	387,358
Honolulu-Chicago	4,251	272	143	35	615,746
Honolulu-Las Vegas	2,762	309	119	84	334,297
Honolulu-San Diego	2,614	345	106	105	281,393
Honolulu-Oakland	2,413	370	99	124	238,719
Honolulu-Dallas-Fort Worth	3,784	503	74	102	285,988
Honolulu-Washington, D.C.	4,828	512	72	79	354,973
Honolulu-Philadelphia	4,925	589	62	93	308,877

1/ Includes all cities in Hawaii included in top 100 U.S. city pairs, as ranked either by number of passengers or number of passenger-miles.

Source: Civil Aeronautics Board, Domestic Origin-Destination Survey of Airline Passenger Traffic, calendar year 1983.

Table 549.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR FLIGHTS BY UNITED AIRLINES BETWEEN SAN FRANCISCO AND HONOLULU: 1980 TO 1984

Effective date of change in fare	Regular one-way fares, including taxes (dollars)			Flight time 1/ (hours, min.)
	First class	Coach, weekend	Coach weekday	
1980: Jan. 1	302.12	209.08	199.08	5:02
June 1	319.13	221.09	211.08	5:02
Aug. 1	351.14	243.10	233.09	5:02
Oct. 1	365.11	252.08	252.08	5:02
1981: Jan. 20 ...	384.12	265.08	265.08	5:02
Mar. 31 ...	415.12	286.09	286.09	5:02
June 17 ...	425.13	296.09	296.09	5:02
Oct. 1	392.12	280.08	280.08	5:00
1982: Mar. 1	412.12	219.07	219.07	5:00
Apr. 1	412.12	310.09	310.09	5:00
June 1	412.12	328.10	328.10	5:00
Sept. 1 ...	415.16	331.13	331.13	5:00
1983: June 15 ...	415.16	353.14	353.14	5:00
1984: Sept.	415.00	353.14	353.14	5:00
Oct.	415.00	353.00	353.00	5:05
Dec.	454.00	364.00	364.00	5:05

1/ Average scheduled flight time eastbound and westbound, by B-747 or DC-10 aircraft.

Source: United Airlines, records.

Table 550.-- REGULAR ONE-WAY FARES AND SCHEDULED FLIGHT TIMES FOR SPECIFIED INTERISLAND FLIGHTS BY HAWAIIAN AIRLINES, BY TYPE OF AIRCRAFT: 1980 TO 1984

Effective date of change in fare	Honolulu-Lihue		Honolulu-Kahului		Honolulu-Hilo	
	DC-9 1/	DASH-7	DC-9 1/	DASH-7	DC-9 1/	DASH-7
FARES 2/						
1980: March 1	38.00	...	38.00	...	49.00	...
May 2	39.00	...	39.00	...	50.00	...
June 1	41.00	...	41.00	...	53.00	...
Sept. 1	44.00	...	44.00	...	56.00	...
1981: Jan. 1	47.00	...	47.00	...	59.00	...
March 1	49.00	...	49.00	...	61.00	...
April 26 ...	49.00	49.00	49.00	49.00	61.00	61.00
May 1	51.00	51.00	51.00	51.00	63.00	63.00
Oct. 15	43.00	43.00	43.00	43.00	53.00	53.00
1982: May 1	46.00	46.00	46.00	46.00	56.00	56.00
June 1	48.00	48.00	48.00	48.00	58.00	58.00
Aug. 1	53.00	53.00	53.00	53.00	63.00	63.00
Sept. 1	54.50	54.50	54.50	54.50	65.00	65.00
1983: Feb. 1	45.00	45.00	45.00	45.00	45.00	45.00
July 1	49.95	49.95	49.95	49.95	49.95	49.95
Oct. 30	49.95	29.95	49.95	29.95	49.95	29.95
Dec. 16	49.95	41.95	49.95	41.95	49.95	41.95
Dec. 22	49.95	33.95	49.95	33.95	49.95	33.95
1984: Jan. 20	49.95	41.95	49.95	41.95	49.95	41.95
May 28	49.95	43.95	49.95	43.95	49.95	43.95
FLIGHT TIMES 3/						
All dates	26	34	27	34	40	60

1/ DC-9-50, through May 1981; DC-9-80 thereafter.

2/ Total regular one-way fare, including taxes and other charges, in dollars.

3/ Average non-stop scheduled flight time eastbound and westbound, in minutes.

Source: Hawaiian Airlines, records.

Table 551.-- STATE COMMERCIAL HARBORS: 1984

Island and harbor	Harbor entrance depth (feet)	Harbor basin			Piers (linear feet)	Storage area (1,000 square feet)	
		Depth (feet)	Length (feet)	Width (feet)		Shedded	Open
Hawaii:							
Hilo	35	35	2,300	1,400	2,787	122	446
Kawaihae	40	35	1,500	1,450	1,012	23	166
Maui:							
Kahului	35	35	2,400	2,050	2,749	124	586
Molokai:							
Kaunakakai	23	23	1,500	600	691	10	123
Oahu:							
Honolulu:							
Main	45	40	3,300	1,520	26,483	1,691	6,643
Kapalama		40	3,400	1,000			
Kauai:							
Nawiliwili	40	35	1,950	1,540	1,216	66	247
Port Allen	35	35	1,500	1,200	1,200	35	32

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data, October 30, 1984.

Table 552.-- DOCUMENTED AND NUMBERED VESSELS REGISTERED IN HAWAII: 1974 TO 1984

Year	Documented vessels 1/		Numbered vessels 2/	
	Date	Number	Date	Number
1974	Aug. 22	707	Dec. 31	11,843
1975	Sept. 1	797	Dec. 31	12,956
1976	Dec.	802	Dec. 31	13,130
1977	Dec. 7	924	Dec. 31	13,165
1978	Dec. 31	987	Dec. 31	13,695
1979	Dec. 31	996	Dec. 31	13,678
1980	Dec. 31	1,143	Dec. 31	13,459
1981	June 30	1,141	Dec. 31	13,405
1982	June 30	1,225	Dec. 31	12,999
1983	June 30	1,300	Dec. 31	12,604
1984	June	1,203	...	...

1/ Vessels documented under the laws of the United States with the U.S. Coast Guard in Hawaii. All vessels over five net tons, used for commercial purposes, must be documented. In addition, yachts over five net tons may be documented. The data for 1982 and 1983 are Coast Guard estimates.

2/ Non-documented numbered vessels registered with the Hawaii State Department of Transportation. Any mechanically propelled boat (including those with auxiliary engines), and any boat powered solely by sail if over eight feet in length, must be numbered.

Source: U.S. Coast Guard, Marine Safety Office, records; Hawaii State Department of Transportation, Report of Undocumented Vessel Registration (annual).

Table 553.-- UNDOCUMENTED STATE-REGISTERED VESSELS: DECEMBER 31, 1983

Subject	Number
Certificates outstanding	12,604
Length:	
Under 16 feet	4,920
16 to less than 26 feet	6,410
26 to less than 40 feet	1,083
40 to 65 feet	186
Over 65 feet	6
Median (feet)	18.2
Hull materials:	
Wood	1,990
Steel	29
Aluminum	439
Plastic	9,620
Other	526
Propulsion:	
Inboard	851
Outboard	7,024
Inboard/outboard	1,949
Sail/inboard	551
Sail/outboard	588
Sail only	1,333
Other	308
Type of storage:	
On water	2,428
On land	10,176

Subject	Number
Type of vessel:	
Cabin motorboat	1,812
Open motorboat	4,806
Runabout	2,721
Sail/inboard	548
Sail/outboard	651
Sail only	1,307
Motor vessel over 65 feet	5
Other	754
Uses:	
Pleasure	10,936
Commercial fishing	1,106
Charter fishing	13
Commercial passenger	97
Other commercial	36
Livery	143
Dealers or manufacturers	3
Youth group	38
Government	183
Other	49
Island kept:	
Hawaii	1,761
Kauai	943
Lanai	44
Maui	1,030
Molokai	189
Oahu	8,637

Source: Hawaii State Department of Transportation, Harbors Division, Report of Undocumented Vessel Registration (annual).

Table 554.-- BOATING ACCIDENTS: 1978 TO 1983

Year	Number of accidents		Number of persons		Number of vessels involved	Amount of damage ($1,000)
	Total	Fatal	Killed	Injured non-fatally		
1978	74	7	12	5	87	603.2
1979	59	3	7	9	66	429.2
1980	71	1	1	8	86	917.6
1981	43	-	-	5	52	404.5
1982	60	6	8	4	77	1,082.2
1983	41	2	3	15	51	253.6

Source: U.S. Department of Transportation, Coast Guard, Boating Statistics (annual).

Table 555.-- SHIP ARRIVALS AT THE PORT OF HONOLULU: 1973 TO 1983

[Years ended June 30]

Year	Overseas vessels		Interisland vessels	
	Number	Gross tonnage	Number	Gross tonnage
1973	1,801	14,373,090	3,602	2,185,872
1974	1,587	13,465,620	3,666	2,879,354
1975	1,602	13,025,705	3,440	2,411,933
1976	1,386	11,700,000	2,733	2,064,320
1977	1,589	12,568,896	2,700	2,249,446
1978	1,651	12,676,469	1,981	1,947,893
1979	1,757	12,101,936	2,875	2,838,609
1980	1,963	10,483,989	2,338	2,572,778
1981	1,968	10,959,161	2,597	2,670,405
1982	1,943	9,604,985	2,496	2,598,632
1983	1,775	10,406,544	2,662	2,623,321

Source: Hawaii State Department of Transportation, Harbors Division, unpublished data.

Table 556.-- VESSELS ARRIVING AT SPECIFIED HARBORS: 1982

[Excludes domestic fishing craft]

Harbor	Total inbound vessels	By type of vessel		
		Self propelled vessels		
		Passenger and dry cargo	Tanker	Towboat or tugboat
All spec. harbors ..	10,276	1,792	157	3,825
Hilo	894	108	7	359
Kawaihae	385	10	-	141
Kahului	1,110	93	7	402
Kaumalapau	972	-	-	338
Kaunakakai	775	-	-	355
Kalaupapa	9	-	-	5
Honolulu	5,264	1,522	43	1,802
Barbers Point	332	3	97	208
Nawiliwili	482	56	3	185
Port Allen	53	-	-	30

Harbor	By type of vessel -- con.		By draft	
	Non-self propelled vessels			
	Dry cargo	Tanker	18 feet and less	19 feet and more
All spec. harbors ..	3,932	570	(NA)	(NA)
Hilo	324	96	865	29
Kawaihae	226	8	376	9
Kahului	503	105	962	148
Kaumalapau	630	4	972	-
Kaunakakai	401	19	(NA)	(NA)
Kalaupapa	4	-	9	-
Honolulu	1,629	268	4,606	658
Barbers Point	-	24	237	95
Nawiliwili	214	24	459	23
Port Allen	1	22	53	-

NA Not available.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1982, Part 4 (1984), pp. 102-103.

Table 557.-- TRANSPACIFIC AND INTERISLAND SURFACE PASSENGER MOVEMENTS: 1974 TO 1984

[Data limited to revenue passengers]

Year	Transpacific passengers 1/			Interisland passenger arrivals 2/
	Disembarking	Embarking	Intransit	
1974 ...	5,756	5,975	(NA)	-
1975 ...	5,795	5,284	(NA)	71,807
1976 ...	5,829	5,987	(NA)	196,366
1977 ...	5,940	5,476	(NA)	270,128
1978 ...	4,763	4,151	(NA)	11,000
1979 ...	551	318	11,536	-
1980 ...	399	353	11,421	15,763
1981 3/	614	510	9,847	33,108
1982 ...	542	461	6,785	39,057
1983 3/	741	740	8,419	56,073
1984 ...	726	[illegible]51	6,692	78,443

NA Not available.

1/ Data refer to years ended June 30 through 1983 and calendar years thereafter. Data limited to the Port of Honolulu. The decline in passenger volumes after 1977 reflects the termination of service by the Mariposa and Monterey on April 2, 1978.

2/ Calendar year statistics. Scheduled interisland passenger service by hydrofoil was begun June 15, 1975 and terminated January 15, 1978. Interisland cruise ship service was begun June 21, 1980. The 1978 figure is an estimate based on the daily average for 1977. Data exclude interisland travel by transpacific cruise ships.

3/ Transpacific passenger movements revised from Data Book 1983, table 486.

Source: Transpacific passengers, 1979 and later years, from TheoDavies Marine Agencies, Inc., records; interisland passengers, 1980 and later years, from American Hawaii Cruises, records; other data from Hawaii State Department of Transportation, Harbors Division, records.

Table 558.-- FREIGHT AND PASSENGER TRAFFIC FOR SPECIFIED HARBORS: 1972 TO 1982

Subject and year	Hilo	Kawaihae	Kahului	Hono-lulu 1/	Barbers Point	Nawiliwili
FREIGHT TRAFFIC 2/ (SHORT TONS)						
1972	1,108,067	303,116	1,297,829	7,960,447	3,420,445	582,887
1973	1,041,647	385,850	1,042,818	8,188,466	3,944,857	495,448
1974	928,619	291,036	982,110	7,556,891	4,360,221	380,495
1975	1,053,879	279,687	1,109,485	7,935,183	5,185,659	532,978
1976	995,544	263,562	1,276,424	7,189,538	6,593,497	460,900
1977	1,013,430	318,197	1,301,095	6,881,556	6,630,994	557,798
1978	1,272,734	502,451	1,922,112	7,750,537	6,306,580	765,877
1979	1,220,438	447,521	1,473,307	7,463,663	6,154,541	757,899
1980	1,102,019	518,116	1,441,524	7,646,270	5,725,722	785,212
1981	1,441,590	432,704	1,551,944	8,269,671	5,589,741	906,595
1982	1,381,996	441,130	1,483,955	7,593,097	5,707,386	808,153
PASSENGERS 3/						
1972	658	-	-	796,694	-	658
1973	-	-	-	989,100	-	-
1974	9,600	-	9,600	987,475	-	-
1975	13,613	-	11,296	1,073,125	-	13,934
1976	1,313	-	1,307	1,390,524	-	40,674
1977	8,381	-	8,390	303,291	3,504	70,063
1978	3,207	-	3,879	183,721	4,441	6,384
1979	-	-	-	311,899	-	-
1980	-	-	-	547,242	-	-
1981	-	-	-	521,624	-	-
1982	-	-	-	465,466	-	-

1/ For discussion of the accuracy of these data, see the Data Book 1982, table 441.

2/ Excludes cargo carried by Army and Navy vessels and cargo in transit.

3/ Total arrivals and departures for transpacific, interisland, and local travel.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1982, Part 4, pp. 30-35.

Table 559.-- OVERSEAS AND INTERISLAND SHIPPING: 1971 TO 1981

[In short tons]

Calendar year	Overseas cargo tons			Interisland cargo tons		
	Total	In	Out	Total	In	Out
1971 ...	9,442,634	7,097,445	2,345,189	4,190,708	2,091,490	2,099,218
1972 ...	10,024,122	7,631,789	2,392,333	5,851,128	2,800,702	3,050,426
1973 ...	11,287,536	8,203,106	3,084,430	4,679,121	2,300,634	2,378,487
1974 ...	11,156,346	8,581,226	2,575,120	3,780,896	1,904,501	1,876,395
1975 ...	11,758,995	8,644,344	3,114,651	5,067,630	2,495,317	2,572,313
1976 ...	12,222,022	9,240,594	2,981,428	5,015,918	2,475,123	2,540,795
1977 ...	12,644,459	9,544,639	3,099,820	4,542,491	2,274,346	2,268,145
1978 ...	12,279,219	9,089,931	3,189,288	6,547,820	3,274,080	3,273,740
1979 ...	11,823,885	9,255,026	2,568,859	5,631,539	2,917,854	2,713,685
1980 ...	11,666,648	9,395,453	2,271,195	5,745,346	2,965,962	2,779,384
1981 ...	11,683,189	9,389,317	2,293,872	7,018,382	3,497,183	3,521,199

Source: Hawaii State Department of Transportation, Harbors Division, estimates based on data in U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States (annual), and printouts.

Table 560.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1981

[In short tons]

Harbor and commodity 1/	Total	Foreign		Interstate 2/		Interisland 2/		Internal receipts
		Imports	Exports	Receipts	Ship-ments	Receipts	Ship-ments	
Hilo	1,441,590	32,442	54,963	69,924	293,736	768,431	221,823	271
Sugar	280,594	-	3	-	279,310	6	1,275	-
Fabricated metal products	229,205	-	-	763	-	176,299	52,143	-
Kawaihae	432,704	-	-	2,409	134,153	206,648	89,433	61
Kahului	1,551,944	23,271	33,270	29,964	232,041	931,365	301,942	91
Sugar	204,067	-	4	-	203,993	47	23	-
Fabricated metal products	260,506	-	4	260	-	223,328	36,914	-
Barbers Point	5,989,741	3,233,945	57,728	2,409,611	197,937	13,144	77,376	-
Crude petroleum	5,030,064	3,112,715	-	1,917,349	-	-	-	-
Gasoline	289,303	82,201	31,655	-	175,447	-	-	-
Residual fuel oil	508,725	11,552	15,982	460,657	-	-	20,534	-
Honolulu	8,269,671	1,034,135	190,457	2,529,045	857,364	1,106,610	2,551,877	183
Fresh fruits	357,347	803	1,267	18,033	63,822	272,260	1,162	-
Crude petroleum	328,061	284,863	-	43,198	-	-	-	-
Prep. fruit/veg. juice	447,408	7,635	5,500	8,390	312,966	111,504	1,413	-
Sugar	203,792	8	1,518	1,701	199,192	1,298	75	-
Molasses	264,835	-	558	-	150,256	114,021	-	-
Gasoline	669,907	391,988	16,373	83,999	6,389	-	171,158	-
Jet fuel	275,215	-	-	260,614	-	1,183	13,418	-
Distillate fuel oil	487,014	7,002	53,598	99,276	1,567	-	325,571	-
Residual fuel oil	278,681	15,847	-	37,058	-	-	225,776	-
Fabricated metal products	848,563	5,981	832	32,031	249	183,119	626,351	-
Motor vehicles, parts, equip.	437,401	23,535	246	55,860	23,452	115,707	218,601	-
Nawiliwili	906,595	6,186	8,297	10,363	233,926	462,963	184,738	122
Sugar	230,713	-	-	-	230,691	22	-	-
Fabricated metal products	239,123	-	-	446	-	169,941	68,736	-

Continued on next page.

Table 560.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1981 -- Con.

Harbor and commodity 1/	Total	Foreign		Interstate 2/		Interisland 2/		Internal receipts
		Imports	Exports	Receipts	Ship-ments	Receipts	Ship-ments	
Hana	6	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kailua	4	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)	(NA)
Kalaupapa	912	-	-	-	-	705	207	-
Kaunakakai	220,185	(NA)	(NA)	141	-	108,126	111,909	(NA)
Port Allen	103,382	(NA)	(NA)	8,022	-	94,010	-	(NA)
Pearl Harbor	(NA)	(NA)	(NA)	135,309	-	24,255	32,329	(NA)
Kaumalapau	(NA)	(NA)	(NA)	-	-	50,903	188,850	(NA)

NA Not available.

1/ Commodities under 200,000 tons are not shown separately.

2/ Interstate and interisland (or intrastate) data are combined in the coastwise totals shown in the published reports.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1981, Part 4 (1983), pp. 29-36, and unpublished printouts.

Table 561.-- FREIGHT TRAFFIC, BY COMMODITIES, FOR SPECIFIED HARBORS: 1982

[In short tons. Commodities under 200,000 tons not shown separately]

Harbor and commodity	Total 1/	Foreign		Coastwise 2/	
		Imports	Exports	Receipts	Shipments
Hilo	1,381,996	19,027	19,033	820,316	523,097
Sugar	214,689	-	-	23	214,666
Fabricated metal products	302,358	-	-	179,079	123,279
Kawaihae	441,130	-	-	204,084	236,996
Kahului	1,483,955	16,936	10,477	877,351	579,108
Fabricated metal products	327,980	-	-	221,368	106,612
Honolulu	7,593,097	870,710	179,650	3,326,386	3,216,219
Fresh fruits	375,584	1,206	1,185	291,418	81,775
Crude petroleum	520,657	520,657	-	-	-
Prep. fruit, veg. juice	420,059	3,136	6,272	129,270	281,381
Molasses	336,554	-	7,165	136,830	192,559
Gasoline	260,756	27,902	9,063	34,296	189,495
Distillate fuel oil	391,615	-	40,204	46,988	304,423
Residual fuel oil	272,975	610	50,038	16,291	206,036
Fabricated metal products	986,218	6,311	1,298	365,767	612,842
Motor vehicles, parts, equipment	425,285	29,041	456	169,542	226,246
Barbers Point	5,707,386	2,349,792	368,854	2,772,009	216,731
Crude petroleum	4,283,466	2,295,488	-	1,987,978	-
Gasoline	217,020	54,292	83,542	-	79,186
Residual fuel oil	1,023,770	-	232,119	710,720	80,931
Nawiliwili	808,153	22,102	-	403,690	382,242
Fabricated metal products	205,793	-	-	127,063	78,730
Hana	11	(NA)	(NA)	(NA)	(NA)
Kaumalapau	264,165	(NA)	(NA)	(NA)	(NA)
Fresh fruits	212,783	(NA)	(NA)	(NA)	(NA)
Kaunakakai	221,003	(NA)	(NA)	(NA)	(NA)
Kalaupapa	1,412	(NA)	(NA)	(NA)	(NA)
Port Allen	71,913	(NA)	(NA)	(NA)	(NA)

NA Not available.

1/ Includes internal receipts, not shown separately: Hilo, 523 tons; Kawaihae, 50; Kahului, 83; Honolulu, 132; Barbers Point, none; and Nawiliwili, 119.

2/ Interisland and interstate.

Source: U.S. Department of the Army, Corps of Engineers, Waterborne Commerce of the United States, Calendar Year 1982, Part 4 (July 1984), pp. 30-37.

AGRICULTURE

This section presents statistics on agricultural land, farms, crops, livestock, dairy products, and poultry. Related information appears in Sections 6 (on land use), 11 and 15 (agricultural employment and earnings), and 22 (food processing).

There were 4,596 farms in Hawaii as of 1982, with a total area of 1.96 million acres. The value of crop sales in 1983 was $479 million, or 175 percent higher than the total for 1973. Livestock sales amounted to $86 million, or 56 percent more than the 1973 level. Combined crop and livestock sales in 1983 ranged from $62 million in Kauai County to $191 million on the Big Island. Major crops were sugar ($266 million in sales, up 88 percent over the decade), pineapple ($100 million, or 153 percent over the 1973 total), flowers and nursery products ($36 million, or 442 percent more than in 1973), vegetables and melons ($26 million, up 185 percent), and macadamia nuts ($24 million, up 674 percent). Diversified crops, defined as all crops other than sugar and pineapple, rose from $29 million in 1973 to $113 million in 1983, or approximately 283 percent. About 680 farms sold $36 million of flowers and nursery products in 1983, chiefly anthuriums, potted foliage, and orchids. Important products of livestock farms as of 1983 included cattle ($29 million in sales), milk (also $29 million), and eggs ($14 million). In 1983, Hawaii produced 44 percent of the fresh market vegetables consumed locally, 20 percent of the fresh market fruits, 32 percent of the beef and veal, 25 percent of the chickens, none of the rice, and 76 percent of the eggs.

Aquaculture has been growing in importance in recent years. Freshwater prawn production amounted to 268,500 pounds in 1983, with a value of more than $1.3 million. Ten years earlier the corresponding figures had been only 4,400 pounds and $15,000.

Statistics on Hawaiian agriculture exclude pakalōlō (marijuana) and other illicit plants. Authorities confiscated $54 million worth of marijuana in 1983, but the proportion escaping detection is unknown.

Important sources for data on agriculture include the United States Census of Agriculture, most recently conducted as of 1982, the annual report on Statistics of Hawaiian Agriculture issued by the Hawaii Agricultural Reporting Service, and data compiled by the Hawaiian Sugar Planters' Association, and Aquaculture Development Program of the Department of Land and Natural Resources. Agricultural data for earlier years are summarized in Historical Statistics of Hawaii, Section 13. National statistics appear in Section 24 of the Statistical Abstract of the United States: 1984.

Table 562.-- FARMS, LAND IN FARMS, AND LAND USE: 1982 AND 1978

Subject		1982	1978
Farms	number	4,596	4,310
Land in farms	acres	1,957,503	1,988,282
Average size of farm	acres	426	461
Value of land and buildings:			
Average per farm	dollars	778,322	413,948
Average per acres	dollars	1,826	897
Farms by size:			
1 to 9 acres		2,744	2,527
10 to 49 acres		1,261	1,211
50 to 179 acres		320	296
180 to 499 acres		126	146
500 to 999 acres		33	24
1,000 to 1,999 acres		33	32
2,000 acres or more		79	74
Land in farms according to use:			
Total cropland	farms	3,836	3,565
	acres	346,179	333,262
Harvested cropland	farms	3,539	3,299
	acres	155,981	158,639
Cropland used only for pasture or grazing	farms	399	272
	acres	33,552	27,191
Other cropland	farms	856	1,089
	acres	156,646	147,432
Woodland, including woodland pastured	farms	147	146
	acres	117,264	145,802
Pastureland and rangeland other than cropland and woodland pastured	farms	743	611
	acres	1,132,809	1,143,095
Land in house lots, ponds, roads, wasteland, etc.	farms	2,226	1,859
	acres	361,251	366,123
Irrigated land	farms	1,547	1,493
	acres	146,017	159,323

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 563.-- FARM SALES AND INCOME: 1982 AND 1978

Subject		1982	1978
Market value of agricultural products sold	$1,000	558,846	419,251
Average per farm	dollars	121,594	97,274
Crops, including nursery and greenhouse products	$1,000	456,217	331,020
Grains	$1,000	3,392	1,397
Hay, silage, and field seeds	$1,000	830	450
Vegetables, sweet corn, and melons	$1,000	18,704	15,337
Fruits, nuts, and berries	$1,000	113,727	73,505
Nursery and greenhouse products	$1,000	35,973	24,291
Other crops	$1,000	283,591	216,040
Livestock, poultry, and their products	$1,000	102,629	88,230
Poultry and poultry products	$1,000	21,517	17,187
Dairy products	$1,000	24,363	23,206
Cattle and calves	$1,000	45,513	39,625
Sheep, lambs, and wool	$1,000	82	(D)
Hogs and pigs	$1,000	9,209	(D)
Other livestock and livestock products	$1,000	1,945	742
Farms by value of sales:			
$250,000 or more		161	130
$100,000 to $249,999		194	150
$40,000 to $99,999		345	314
$20,000 to $39,999		471	380
$10,000 to $19,999		610	568
$5,000 to $9,999		654	677
Less than $5,000		2,161	2,091
Value of agricultural products sold directly to individuals for human consumption	farms	550	457
	$1,000	4,546	2,494
Farm-related income:			
Income from machine work, customwork, and other agricultural services	farms	146	119
	$1,000	1,963	1,200

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 564.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978

Subject		1982	1978
Farms by type of organization:			
Individual or family	number	3,853	3,614
	acres	481,214	656,332
Partnership	number	351	326
	acres	130,761	222,668
Corporation:			
Family held	number	272	233
	acres	507,280	377,595
Other than family held	number	80	93
	acres	492,941	595,644
Other -- cooperative, estate or trust, institutional, etc.	number	40	44
	acres	345,307	136,043
Tenure of operator:			
Full owners	farms	2,334	2,111
	acres	328,880	281,019
Part owners	farms	793	713
	acres	1,286,202	1,388,319
Owned land in farms	acres	537,796	603,654
Rented land in farms	acres	748,406	784,665
Tenants	farms	1,469	1,486
	acres	342,421	318,944
Operators by principal occupation and residence:			
Farming		2,565	2,239
Residence on farm operated		1,630	1,287
Residence not on farm operated		659	516
Other than farming		2,031	2,071
Residence on farm operated		1,046	890
Residence not on farm operated		780	660
Operators by age group:			
Under 25 years		35	51
25 to 34 years		631	535
35 to 44 years		794	600
45 to 54 years		803	1,005
55 to 64 years		1,325	1,270
65 years and over		1,008	849
Average age		52.7	52.7
Female operators:			
Farms	number	615	579
Land in farms	acres	129,674	132,173

Continued on next page.

Table 564.-- CHARACTERISTICS OF FARM OPERATORS: 1982 AND 1978 -- Con.

Subject	1982	1978
Operators by race:		
White	1,305	1,039
Black and other races	3,291	3,271
Operators reporting days of work off farm:		
Any	2,535	2,495
100 days or more	1,960	1,878

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 565.-- IRRIGATION OF FARMS: 1982, 1978, AND 1974

Subject		1982	1978	1974
Irrigated farms	number	1,544	1,493	889
Proportion of farms	percent	33.6	34.6	29.4
Land in irrigated farms	acres	645,774	600,255	648,948
Irrigated land	acres	145,982	159,323	141,742
Average per farm	acres	95	107	159
Harvested crop land	farms	1,516	1,465	(NA)
	acres	76,035	77,396	(NA)

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Hawaii, AC82-A-11 (September 1984), p. 2.

Table 566. -- FARMS PRODUCTION EXPENSES, MACHINERY AND EQUIPMENT: 1982 AND 1978

Subject		1982	1978
Selected farm production expenses:			
Livestock and poultry purchased	$1,000	17,581	12,930
Feed for livestock and poultry	$1,000	41,676	34,227
Commercially mixed formula feeds	$1,000	22,275	28,302
Seeds, bulbs, plants, and trees	$1,000	9,668	2,033
Commercial fertilizer	$1,000	33,477	26,530
Other agricultural chemicals	$1,000	16,417	13,700
Hired farm labor	$1,000	146,331	131,217
Workers working 150 days or more	farms	727	661
	number	10,257	11,380
Contract labor	$1,000	3,455	2,396
Customwork, machine hire, and rental of machinery and equipment	$1,000	6,415	5,022
Energy and petroleum products	$1,000	24,095	19,816
Gasoline and gasohol	$1,000	7,778	4,557
Diesel fuel	$1,000	9,465	5,222
Electricity	$1,000	4,102	8,211
Interest expense	$1,000	17,771	(NA)
Machinery and equipment:			
Estimated market value of all machinery and equipment	$1,000	190,233	172,521
Average per farm	dollars	41,727	41,047
Motortrucks, including pickups	farms	3,395	3,047
	number	7,546	7,318
Wheel tractors	farms	1,813	1,564
	number	3,365	3,003

NA Not available.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 567.-- CROPS HARVESTED: 1982 AND 1978

Subject		1982	1978
Sugarcane for sugar	farms	188	328
	acres	89,696	99,065
	tons	8,950,242	9,213,485
Pineapples harvested	farms	15	20
	acres	23,141	25,314
	tons	626,860	685,502
Taro	farms	218	175
	acres	417	426
	pounds	6,360,054	8,908,700
Vegetables harvested for sale	farms	747	751
	acres	4,675	5,509
Farms by acres harvested:			
0.1 to 4.9 acres		549	546
5.0 to 24.9 acres		157	146
25.0 to 99.9 acres		36	55
100.0 acres or more		5	4
Chinese cabbage	farms	47	62
	acres	413	563
Head cabbage	farms	73	64
	acres	768	781
Lettuce and romaine	farms	96	94
	acres	867	1,143
Land in orchards	farms	1,826	1,438
	acres	23,188	17,948
Farms by acres harvested:			
0.1 to 4.9 acres		1,159	875
5.0 to 24.9 acres		601	503
25.0 to 99.9 acres		47	46
100.0 acres or more		19	14
Bananas	farms	534	397
Bearing and nonbearing	acres	1,104	837
	pounds	5,564,165	6,670,317
Coffee	farms	598	494
Bearing and nonbearing	acres	1,582	1,585
Parchment	pounds	1,806,396	1,797,422
Papayas	farms	343	256
Bearing and nonbearing	acres	2,701	3,268
	pounds	50,258,158	70,680,121
Macadamia nuts	farms	879	583
Bearing and nonbearing	acres	15,472	10,149
Husked, unshelled	pounds	35,594,548	22,051,322

Continued on next page.

Table 567.-- CROPS HARVESTED: 1982 AND 1978 -- Con.

Subject		1982	1978
Nursery and greenhouse products, mushrooms, and sod grown for sale	farms ..	1,050	1,008
	sq. ft.	21,063,515	17,637,691
	acres ..	1,650	1,355
	$1,000 .	35,973	24,291
Cut flowers and cut florist greens ..	farms ..	586	601
	sq. ft.	10,863,917	10,851,517
	acres ..	823	776
	$1,000 .	14,751	11,438
Foliage and flowering plants	farms ..	361	358
	sq. ft.	6,130,313	4,582,418
	acres ..	517	360
	$1,000 .	13,518	8,820
Nursery products	farms ..	177	104
	sq. ft.	1,258,657	763,080
	acres ..	292	203
	$1,000 .	4,441	2,316

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 568.-- LIVESTOCK AND POULTRY: 1982 AND 1978

Subject		1982	1978
Cattle and calves inventory	farms	1,040	839
	number	242,022	218,901
Cows and heifers that had calves	farms	825	696
	number	103,343	98,579
Beef cows	farms	784	659
	number	90,523	85,623
Milk cows	farms	89	76
	number	12,820	12,956
Heifers and heifer calves	farms	808	672
	number	66,844	60,871
Steers, steer calves, bulls, and bull calves	farms	940	744
	number	71,835	59,451
Cattle and calves sold	farms	817	740
	number	91,724	105,088
Cattle fattened on grain and concentrates sold	farms	103	45
	number	33,182	38,882
Dairy products sold	farms	31	32
	$1,000	24,363	23,206
Hogs and pigs inventory	farms	371	399
	number	49,029	50,071
Hogs and pigs used or to be used for breeding	farms	285	310
	number	6,779	7,267
Hogs and pigs sold	farms	319	352
	number	67,139	70,361
Feeder pigs sold	farms	67	86
	number	7,160	9,683
Litters of pigs farrowed between --			
Dec. 1 of preceding year and Nov. 30	farms	289	316
	number	10,405	11,346
Dec. 1 of preceding year and May 31	farms	260	306
	number	4,975	5,740
June 1 and Nov. 30	farms	251	285
	number	5,430	5,606
Sheep and lambs inventory	farms	33	13
	number	(D)	(D)
Sheep and lambs sold	farms	16	5
	number	1,891	(D)
Sheep and lambs shorn	farms	11	4
	number	2,175	(D)
Wool	pounds	15,683	(D)
Horses and ponies inventory	farms	505	365
	number	4,030	4,087

Continued on next page.

Table 568.-- LIVESTOCK AND POULTRY: 1982 AND 1978 -- Con.

Subject		1982	1978
Chickens 3 months old or older inventory	farms ...	199	141
	number ..	928,790	1,243,801
Hens and pullets of laying age inventory	farms ...	196	137
	number ..	(D)	1,065,586
Broilers and other meat-type chickens sold	farms ...	24	27
	number ..	3,173,800	2,588,757

D Withheld to avoid disclosing data for individual farms.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report, Hawaii, AC82-A-15-000(P) (January 1984).

Table 569.-- MARKET VALUE OF AGRICULTURAL PRODUCTS SOLD, BY COUNTIES: 1982 AND 1978

Year	State total	Hawaii	Honolulu	Kauai	Maui
Total sales ($1,000):					
1982	558,608	206,427	144,028	70,957	137,196
1978	419,251	148,399	118,608	48,679	103,564
Sales per farm (dollars):					
1982	121,569	81,302	147,570	173,066	204,771
1978	97,274	65,490	112,639	131,920	166,502

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Hawaii, AC82-A-11 (September 1984), p. 108.

Table 570.-- FARMS, LAND IN FARMS, AND LAND USE, FOR COUNTIES: 1982

Subject		Counties 1/			
		Hawaii	Honolulu	Kauai	Maui
Farms	number	2,539	976	410	671
Land in farms	acres	1,172,448	125,932	255,981	403,142
Average size of farm	acres	462	129	624	601
Value of land and buildings:					
Average per farm	dollars	639,819	389,732	1,833,704	1,223,547
Average per acre	dollars	1,385	3,017	2,930	2,037
Farms by size:					
1 to 9 acres		1,468	768	191	317
10 to 49 acres		746	141	136	238
50 to 179 acres		178	27	51	64
180 to 499 acres		68	17	16	25
500 to 999 acres		21	8	1	3
1,000 to 1,999 acres		13	8	7	5
2,000 acres or more		45	7	8	19
Land in farms according to use:					
Total cropland	farms	2,285	757	286	508
	acres	135,861	50,614	51,868	107,836
Harvested cropland	farms	2,123	732	240	444
	acres	59,648	(D)	24,039	(D)
Cropland used only for pasture or grazing	farms	194	32	77	96
	acres	17,434	(D)	2,670	(D)
Other cropland	farms	515	142	78	121
	acres	58,779	22,696	25,159	50,012
Woodland, including woodland pastured	farms	79	22	13	33
	acres	80,097	20,366	1,636	15,165
Pastureland and rangeland other than cropland and woodland pastured	farms	339	84	145	175
	acres	788,037	27,873	108,759	208,140
Land in house lots, ponds, roads, wasteland, etc.	farms	1,108	475	251	392
	acres	168,453	27,079	93,718	72,001
Irrigated land	farms	485	525	182	355
	acres	11,900	36,131	34,414	63,572

D Withheld to avoid disclosing data for individual farms.

1/ Kalawao, not shown separately, did not have any farms in 1982.

Source: U.S. Bureau of the Census, 1982 Census of Agriculture, Preliminary Report for the State and each county, AC82-A-15-000(P) through 009(P) (all issued January 1984).

Table 571.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES: 1973 TO 1983

Year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (un-processed cane)	Pine-apples (fresh equiv-alent)	Other crops	Live-stock
1973 ..	4,100	2,300	266,161	141,900	39,600	29,392	55,269
1974 ..	3,800	2,200	575,432	442,300	40,259	34,964	57,909
1975 ..	3,900	2,150	377,575	237,000	41,616	40,688	58,271
1976 ..	4,000	2,100	327,820	164,700	52,983	47,815	62,322
1977 ..	4,100	2,050	325,182	144,200	62,249	53,715	65,018
1978 ..	4,300	1,980	380,655	182,700	63,090	62,308	72,557
1979 ..	4,300	1,980	441,253	217,600	69,409	75,780	78,464
1980 ..	4,300	1,970	634,101	385,100	76,596	91,181	81,224
1981 ..	4,400	1,965	489,502	207,500	89,745	104,103	88,154
1982 3/	4,400	1,960	507,555	230,800	94,364	103,983	78,408
1983 ..	4,400	1,960	565,907	266,500	100,376	112,618	86,413

1/ Data for 1974 and later years based on revised farm definition.

2/ Includes land not in crop and pasture, such as farm house lots, roads, woodlots, etc.

3/ Revised from Data Book 1983, table 492.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 572.-- NUMBER OF FARMS, FARM ACREAGE, AND VALUE OF CROP AND LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1973 TO 1983

Geographic area and year	Number of farms 1/	Farm acreage 2/ (1,000)	Value of crop and livestock sales ($1,000)				
			Crops and live-stock	Sugar (unpro-cessed cane)	Pine-apples (fresh equiv.)	Other crops	Live-stock
State total:							
1973	4,300	2,300	265,771	141,900	39,600	29,002	55,269
1982 3/ ..	4,400	1,960	507,555	230,800	94,364	103,983	78,408
1983	4,400	1,960	565,907	266,500	100,376	112,618	86,413
Hawaii Co.:							
1973	2,450	1,340	84,488	52,900	-	14,294	17,294
1982 3/	2,650	1,145	176,020	86,900	-	65,343	23,777
1983	2,650	1,145	190,589	99,800	-	66,951	23,838
Maui Co.:							
1973	550	520	69,746	33,900	25,800	4,033	6,013
1982 3/	500	420	119,045	55,000	38,602	14,085	11,358
1983	500	420	147,369	73,400	45,099	16,503	12,367
Oahu:							
1973	900	152	76,353	24,300	13,500	8,917	29,636
1982 3/	1,000	125	152,003	37,900	55,762	19,792	38,549
1983	1,000	125	166,436	40,900	55,277	25,154	45,105
Kauai Co.:							
1973	400	282	35,184	30,800	300	1,758	2,326
1982 3/	250	275	60,487	51,000	(4/)	4,763	4,724
1983	250	275	61,513	52,400	(4/)	4,010	5,103

1/ Farm definition revised in 1979.

2/ Includes land not in crop and pasture such as farm house lots, roads, wood lots, etc.

3/ Revised from Data Book 1983, table 493.

4/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 573.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES: 1973 TO 1983

Subject	1973	1982 1/	1983
Acreage in crop (1,000 acres):			
Sugarcane	226.6	204.8	194.3
Pineapples (land used for pineapple)	57.5	36.0	35.0
Vegetables and melons (harvested acreage)	3.6	4.1	5.1
Fruits, excluding pineapples	4.0	5.6	6.1
Coffee	2.9	2.0	2.0
Macadamia nuts	10.5	15.0	15.8
Miscellaneous crops	4.0	11.3	12.2
Number of crop farms:			
Sugar	538	285	230
Pineapples	33	18	18
Vegetables and melons	420	620	683
Fruits (excluding pineapples)	510	700	724
Coffee	770	620	610
Macadamia nuts	345	520	600
Taro	127	127	155
Flowers and nursery products	490	650	680
Volume of crop marketings:			
Sugar, unprocessed cane (1,000 tons)	9,645	8,808	8,926
Pineapples, fresh equivalent (1,000 tons)	810	670	722
Vegetables and melons (1,000 lb.)	61,952	72,740	89,400
Fruits, excluding pineapples (1,000 lb.)	45,398	70,820	78,900
Coffee, parchment (1,000 lb.)	3,040	990	2,500
Macadamia nuts, in shell (1,000 lb.)	12,124	36,720	36,420
Taro (1,000 lb.)	8,483	6,460	5,440
Value of crop sales ($1,000):			
Sugar (unprocessed cane)	141,900	230,800	266,500
Pineapples (fresh equivalent)	39,600	94,364	100,376
Vegetables and melons	9,128	23,024	25,996
Fruits (excluding pineapples)	5,457	14,846	14,593
Coffee (parchment)	1,711	2,129	5,300
Macadamia nuts (in shell)	3,092	27,136	23,928
Taro	798	1,447	1,229
Field crops (not estimated separately)	1,962	4,651	5,207
Flowers and nursery products	6,674	30,600	36,165

1/ Revised from Data Book 1983, table 494.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 574.-- ACREAGE IN CROP, NUMBER OF CROP FARMS, VOLUME OF CROP MARKETINGS, AND VALUE OF CROP SALES, BY GEOGRAPHIC AREAS: 1983

Subject	Hawaii County	Maui County	Oahu	Kauai County
Acreage in crop (1,000 acres):				
Sugarcane	75.6	47.4	27.2	44.1
Pineapples (land used for pineapple)	-	24.4	10.6	(1/)
Vegetables and melons (harvested acreage)	1.9	1.8	1.3	0.1
Fruits, excluding pineapples	4.4	0.2	0.8	0.7
Coffee	2.0	-	-	-
Macadamia nuts	14.5	(D)	(D)	(D)
Miscellaneous crops	1.1	8.9	1.5	0.7
Number of crop farms:				
Sugar	219	3	3	5
Pineapples	-	13	2	3
Vegetables and melons	300	80	241	62
Fruits (excluding pineapples)	445	50	149	80
Coffee	610	-	-	-
Macadamia nuts	595	2	1	2
Taro	67	25	9	54
Flowers and nursery products	320	85	250	25
Volume of crop marketings:				
Sugar, unprocessed cane (1,000 tons)	3,840	2,232	1,187	1,667
Pineapples, fresh equivalent (1,000 tons)	-	509	213	(2/)
Vegetables and melons (1,000 lb.)	40,100	32,820	14,440	2,040
Fruits, excluding pineapples (1,000 lb.)	67,170	2,530	4,200	5,000
Coffee, parchment (1,000 lb.)	2,500	-	-	-
Macadamia nuts, in shell (1,000 lb.)	36,200	(D)	(D)	(D)
Taro (1,000 lb.)	740	(D)	(D)	3,450
Value of crop sales ($1,000):				
Sugar (unprocessed cane)	99,800	73,400	40,900	52,400
Pineapples (fresh equivalent)	-	45,099	55,277	(3/)
Vegetables and melons	10,731	8,032	6,561	672
Fruits (excluding pineapples)	12,412	503	1,044	634
Coffee (parchment)	5,300	-	-	-
Macadamia nuts (in shell)	23,783	(D)	(D)	(D)
Taro	185	(D)	(D)	762
Field crops (not estimated separately)	39	3,145	539	1,484
Flowers and nursery products	14,316	4,489	16,939	421

D Withheld to avoid disclosure of individual operations.
NA Not available.
1/ Less than 500 acres.
2/ Less than 500 tons.
3/ Less than $50,000.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1983.

Table 575.-- VEGETABLES, FRUITS, NUTS, COFFEE, AND TARO: 1983

Crop 1/	Acreage harvested 2/	Yield per acre (1,000 lb.)	Production (1,000 lb.)	Farm price (cents per lb.)	Value of sales ($1,000)
Vegetables and melons:					
Snap beans	130	7.7	995	80.0	796
Chinese Cabbage	330	23.7	7,820	14.4	1,126
Head Cabbage	540	25.5	13,800	14.1	1,946
Celery	75	42.0	3,150	19.4	611
Cucumbers	225	19.3	4,350	31.1	1,353
Eggplant	60	24.7	1,480	48.0	710
Ginger Root	100	36.3	3,630	92.3	3,350
Lettuce (head, semi-head)	650	14.5	9,400	26.2	2,463
Dry Onions	105	12.9	1,350	66.2	894
Green Onions	115	7.0	800	84.3	674
Green Peppers	80	14.9	1,190	53.0	631
Watercress	25	...	850	73.2	622
Tomatoes	260	30.0	7,800	34.7	2,707
Watermelons	310	12.5	3,860	19.9	768
Fruits:					
Bananas	585	...	6,730	9.9	664
Guavas	720	8.0	5,750	28.6	1,645
Papayas	2,170	24.3	52,750	21.8	11,484
Macadamia nuts (1983-1984)	10,200	3.6	36,720	73.9	27,136
Coffee (1983-1984)	1,900	0.6	1,050	210.0	2,205
Taro	340	...	6,460	22.4	1,447

1/ Data shown for crops with sales in excess of $600,000.

2/ Acreage bearing for macadamia nuts; acreage in crop for watercress and taro.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture, 1983 pp. 30-66.

Table 576.-- LIVESTOCK INVENTORY: 1973, 1982, AND 1983

[In thousands]

Type of livestock	1973	1982	1983
All cattle and calves 1/	242	230	226
Milk cows 1/	13	12	12
Hogs and pigs 2/	61	49	48
Chickens (excluding broilers) 2/ ..	1,295	1,148	1,140
Bee colonies	3	8	9

1/ As of following January 1.
2/ As of December 1.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 577.-- LIVESTOCK INVENTORY, BY GEOGRAPHIC AREAS: 1983-1984

[In thousands]

Type of livestock	Hawaii County	Maui County	Oahu	Kauai County
All cattle and calves 1/	135.8	40.9	33.3	16.0
Milk cows 1/	1.5	1.0	9.4	0.5
Hogs and pigs 2/	3.2	9.6	31.7	3.5
Chickens (excluding broilers) 2/ .	(D)	(D)	961.0	(D)

D Withheld to avoid disclosure of individual operations.
1/ As of January 1, 1984.
2/ As of December 1, 1983.
Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture 1983, pp. 71, 80, and 85.

Table 578.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES: 1973 TO 1983

Subject	1973	1982	1983
Number of livestock operations, Dec. 31:			
Cattle 1/	960	750	750
Hogs	560	650	650
Milk	100	70	70
Eggs	80	55	55
Broilers	15	10	9
Honey 2/	19	30	27
Volume of livestock marketings:			
Beef (dressed weight; 1,000 lb.) 3/	31,617	29,048	31,985
Pork (dressed weight; 1,000 lb.)	7,433	8,557	7,693
Milk (million lb.)	136.4	106.4	143.7
Eggs (million)	208	202.2	197.3
Broilers and chickens (1,000 lb.) 4/	6,031	8,571	8,947
Honey (1,000 lb.) 2/	132	920	1,305
Value of livestock sales ($1,000):			
Cattle 5/	19,831	27,619	29,308
Hogs 5/	4,737	8,465	7,775
Milk	16,472	21,908	28,869
Eggs	11,267	14,542	14,041
Broilers and chickens	2,856	5,240	5,529
Other	106	634	891

1/ Includes beef, dairy, and dairy replacement farms.

2/ 1982 figure revised from Data Book 1983, table 499.

3/ Includes slaughter cattle, but excludes calves shipped out-of-State.

4/ Ready-to-cook weight.

5/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture (annual).

Table 579.-- NUMBER OF LIVESTOCK OPERATIONS, VOLUME OF LIVESTOCK MARKETINGS, AND VALUE OF LIVESTOCK SALES, BY GEOGRAPHIC AREAS: 1983

Subject	Hawaii County	Maui County	Oahu	Kauai County
Number of livestock operations, Dec. 31:				
Cattle 1/	335	205	70	140
Hogs	85	115	330	120
Milk	24	17	24	5
Eggs	26	6	19	4
Broilers	-	-	8	1
Honey	6	5	5	11
Volume of livestock marketings:				
Beef 2/ (dressed weight; 1,000 lb.)	20,827	7,115	1,815	2,228
Pork (dressed weight; 1,000 lb.)	731	1,802	4,588	572
Milk (million lb.)	(D)	(D)	112.2	(D)
Eggs (million)	(D)	(D)	165.1	(D)
Broilers and chickens 3/ (1,000 lb.)	-	-	(D)	(D)
Honey (1,000 lb.)	(D)	(D)	(D)	(D)
Value of livestock sales ($1,000):				
Cattle 4/	18,831	6,893	1,445	2,139
Hogs 4/	785	1,922	4,435	633
Milk	(D)	(D)	22,496	(D)
Eggs	(D)	(D)	11,412	(D)
Broilers and chickens	-	-	(D)	(D)
Other	891	125	41	37

D Withheld to avoid disclosure of individual operations.

1/ Includes beef, dairy, and dairy replacement farms.

2/ Includes slaughter cattle, but excludes calves shipped out-of-State.

3/ Ready-to-cook weight.

4/ Excludes interfarm sales; includes out-of-State sales of slaughter cattle and feeder calves.

Source: Hawaii Agricultural Reporting System, Statistics of Hawaiian Agriculture 1983 pp. 5, 7, and 10.

Table 580.-- FLOWERS AND NURSERY PRODUCTS, 1981 TO 1983, AND BY ISLANDS, 1983

Island and year	Number of farms	Area					Value of sales ($1,000)
		Total (acres)	Green-house (1,000 sq. ft.)	Artificial shade structure (1,000 sq. ft.)	Natural shade area (acres)	Open field (acres)	
State total:							
1981	680	1,610	2,295	23,068	133	895	29,482
1982	650	1,628	2,399	25,126	119	877	30,600
1983	680	1,786	2,327	26,329	106	1,022	36,165
Islands, 1983:							
Hawaii	320	987	1,164	19,252	98	420	14,316
Kauai	25	30	15	103	3	24	421
Maui/Molokai	85	274	193	958	-	248	4,489
Oahu	250	495	955	6,016	5	330	16,939

Source: Hawaii Agricultural Reporting Service, "Record 1983 Sales for Flower and Nursery Products," Hawaii Flowers and Nursery Products, Annual Summary (July 2, 1984).

Table 581.-- FLOWERS AND NURSERY PRODUCTS, BY KIND OF FLOWER: 1983

[Shown for commodities with value of sales over $500,000]

Kind of flower	Number of farms	Number sold		Value of sales ($1,000)
		Unit	Number	
Selected cut flowers:				
Anthuriums	210	1,000 dozens	2,054	6,035
Roses	7	1,000 dozens	561	1,761
Chrysanthemums, pompon	14	1,000 bunches	448	641
Orchids:				
Cut: Dendrobium sprays	60	1,000 dozens	123	774
Potted: Dendrobiums	90	1,000 pots	229	1,032
Lei flowers:				
Carnations	23	Million blooms	35.9	1,304
Vanda, Miss Joaquim	28	Million blooms	40.6	1,226
Tuberose	6	Million blooms	27.0	758
Foliage:				
Potted, primarily for --				
Indoor or patio use	80	...	(NA)	10,836
Landscape use	40	...	(NA)	845
Unfinished stock	24	...	(NA)	1,430
Potted flowering plants:				
Chrysanthemums	8	1,000 pots	218	743
Poinsettias	25	1,000 pots	150	513
Ornamentals and trees	42	...	(NA)	773

NA Not available.

Source: Hawaii Agricultural Reporting Service, "Record 1983 Sales for Flowers and Nursery Products," Hawaii Flowers and Nursery Products, Annual Summary (July 2, 1984).

Table 582.-- MARKET SUPPLY OF SPECIFIED FOODS: 1973 TO 1983

Commodity and year	Total market supply 1/			Per capita market supply 2/	Percent from Hawaii
	Total	Inshipment	Hawaii		
Fresh market fruits:					
1973	55,074	34,856	20,218	61.1	36.7
1982	81,365	61,725	19,640	74.8	24.1
1983	84,544	67,276	17,268	75.6	20.4
Fresh market melons:					
1973	10,257	6,017	4,240	11.4	41.3
1982	18,263	16,038	2,225	16.8	12.2
1983	18,402	14,532	3,870	16.5	21.0
Fresh market vegetables:					
1973	125,166	70,115	55,051	139.0	44.0
1982 3/	185,568	117,366	68,202	170.7	36.8
1983	190,897	107,316	83,581	170.7	43.8
Beef and veal: 4/					
1973	72,110	40,493	31,617	80.0	43.9
1982	97,030	67,982	29,048	89.2	29.9
1983	99,799	67,814	31,985	89.2	32.0
Pork: 4/					
1973	23,866	16,433	7,433	26.5	31.1
1982 3/	34,976	26,419	8,557	32.2	24.5
1983	36,000	28,307	7,693	32.2	21.4
Chickens:					
1973	27,519	21,488	6,031	30.6	21.9
1982	34,928	26,357	8,571	32.1	24.5
1983	35,879	26,932	8,947	32.1	24.9
Eggs:					
1973	18,504	1,204	17,300	20.5	93.5
1982	22,250	5,400	16,850	20.5	75.7
1983	21,600	5,158	16,442	19.3	76.1

1/ Eggs in 1,000 dozens; other foods in 1,000 pounds.

2/ Eggs in dozens; other foods in pounds. Based on de facto population.

3/ Revised from Data Book 1983, table 503.

4/ Carcass weight equivalent.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual).

Table 583.-- AGRICULTURAL PRODUCTIVITY RATING AND ESTIMATED ANNUAL INLAND SOIL LOSS FOR MAJOR ISLANDS

Subject	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Agricultural productivity rating (1,000 acres)						
Total	2,584.3	466.4	89.3	167.1	388.9	354.1
Very good	-	32.7	-	0.7	24.6	10.0
Good	46.2	20.1	-	-	32.3	30.3
Moderate	214.3	38.5	4.8	4.5	22.0	28.5
Poor	573.1	99.8	20.2	40.4	19.7	30.5
Very poor	1,738.2	268.7	63.8	120.3	228.2	249.3
Not rated 1/	12.5	6.7	0.4	1.2	62.1	5.5
Inland soil loss (1,000 tons per year)						
Total erosion	2,287	2,357	1,242	2,373	1,355	2,493
Sediment yield 2/	502	310	187	357	330	429

1/ Quarry, water, or urban.

2/ Total erosion minus amount deposited enroute to the point of measurement.

Source: Arthur Y. Ching and Tamotsu Sahara, Land Use and Productivity Rating, State of Hawaii, 1968, L.S.B. Circular No. 15 (University of Hawaii, Land Study Bureau, July 1969), pp. 55-60; State of Hawaii Water Resources Regional Study, Hawaii Water Resources Plan (January 1979), p. 94.

Table 584.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980

[Estimated area in thousands of acres, as measured from 1:24,000-scale quadrangle maps. These data differ somewhat from the official statistics compiled from surveys of farmers and ranchers and published in Statistics of Hawaiian Agriculture (annual), cited elsewhere in this section]

Land use	Six-island total	Hawaii	Maui	Lanai	Molokai	Oahu	Kauai
Total land area ..	4,034.70	2,573.40	465.80	90.50	165.80	385.30	353.90
Agriculture	1,442.20	960.17	216.39	16.92	86.23	77.55	84.94
Sugarcane	251.05	104.13	54.92	-	-	38.68	53.32
Pineapple	44.54	-	11.11	16.82	3.61	12.98	.02
Field crops	17.88	11.06	2.40	-	1.27	2.82	.33
Veg and melons ..	7.09	2.48	1.90	-	1.09	1.55	.07
Forage and grain	3.51	2.32	-	-	.16	.80	.23
Flowers/nursery .	3.06	2.09	.49	-	.02	.43	.03
Flowers	2.28	1.94	.17	-	-	.17	-
Foliage/nursery	.78	.15	.32	-	.02	.26	.03
Other 1/	4.22	4.17	.01	-	-	.04	-
Orchards	35.68	30.08	2.42	-	.08	1.51	1.59
Bananas	1.25	.15	.05	-	.01	.54	.50
Papayas 2/	12.05	10.73	.01	-	.02	.55	.74
Macadamia nuts ..	16.93	14.73	2.18	-	.01	.01	-
Avocados	.73	.61	.11	-	.01	-	-
Coffee	2.44	2.44	-	-	-	-	-
Guava	.80	.13	-	-	-	.32	.35
Other 3/	1.48	1.29	.07	-	.03	.09	-
Wetland crops	.67	.13	.15	-	.01	.07	.31
Aquaculture	.58	.12	.02	-	-	.35	.09
Livestock	1,091.80	814.65	145.37	.10	81.26	21.14	29.28
Feedlot	4.77	1.54	1.97	-	-	1.00	.26
Dairy 4/	4.37	1.51	1.89	-	-	.76	.21
Hog	.25	.01	.08	-	-	.13	.03
Poultry	.15	.02	-	-	-	.11	.02
Grazing	1,086.09	813.02	142.55	.10	81.26	20.14	29.02
Other 5/	.94	.09	.85	-	-	-	-
Urban 6/	163.61	36.22	18.91	4.61	4.11	87.43	12.33
Built-up	107.55	15.90	9.64	.33	1.29	71.60	8.79
Vacant	56.06	20.32	9.27	4.28	2.82	15.83	3.54
In agric. use ...	10.06	2.01	1.56	.31	.43	4.48	1.27
Balance 7/	2,428.89	1,577.01	230.50	68.97	75.46	220.32	256.63

Footnotes and source on next page.

Table 584.-- AGRICULTURAL, URBAN AND OTHER LAND USE, FOR THE SIX LARGEST ISLANDS: 1978-1980 -- Con.

1/ Unidentified field crops; also includes flowers and nursery.
2/ Includes areas used for rotation and replanting.
3/ Includes unidentified orchards.
4/ Includes dairy grazing areas.
5/ Unidentified livestock, also including grazing.
6/ Includes Rural District lands.
7/ Includes Conservation District lands.
Source: Hawaii State Department of Agriculture, Annual Report, Fiscal Year 1983, p. 27.

Table 585.-- FERTILIZER CONSUMPTION BY TYPE: 1978 TO 1983

[In tons. For years ended June 30]

Year	Total	Mixtures 1/	Direct application materials	
			Primary nutrient 2/	Secondary and micro-nutrient
1978	193,745	133,792	57,705	2,248
1979	181,105	119,866	58,783	2,456
1980	169,409	108,590	58,527	2,291
1981	150,137	102,546	46,863	728
1982	156,439	100,797	54,627	1,015
1983	136,839	95,856	40,114	869

1/ Fertilizers having various combinations of primary nutrients.
2/ The primary nutrients are nitrogen, phosphate, and potash.
Source: Hawaii Agricultural Reporting Service, "Hawaii Fertilizer Consumption Drops to Lowest Level in Over Two Decades," Hawaii Fertilizer Use, December 8, 1983.

Table 586.-- FRESHWATER PRAWN FARMS, BY TYPE OF OPERATION AND ISLAND: DECEMBER 31, 1979 TO 1983

Operation and island	1979	1980	1981	1982	1983
All prawn farms	19	24	21	22	21
Type of operation:					
Full-time	7	8	8	8	7
Part-time	12	16	13	14	14
Island:					
Hawaii	-	4	4	4	3
Maui	-	-	-	-	1
Molokai	1	1	1	1	-
Oahu	17	16	13	13	13
Kauai	1	3	3	4	4

Source follows next table.

Table 587.-- FRESHWATER PRAWN ACREAGE, PRODUCTION, AND VALUE: 1973 TO 1983

Year	Acres of prawn ponds 1/	Production (1,000 lb.)	Value ($1,000)	Wholesale price per pound (dollars)
1973	1.5	4.4	15.3	3.50
1974	5	11.0	38.5	3.50
1975	26	40.3	140.9	3.50
1976	26	43.3	151.6	3.50
1977	33	54.9	206.0	3.75
1978	107	110.2	420.0	3.82
1979	275	205.0	787.3	3.84
1980	310	300.0	1,125.0	3.75
1981	260	240.0	1,031.0	4.30
1982	306	316.6	1,553.0	4.90
1983	239	268.5	1,347.3	5.01

1/ As of December 31.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program, records.

Table 588.-- AQUACULTURE ACREAGE, PRODUCTION, AND VALUE, BY TYPE: 1976 TO 1983

Subject and year	All types	Fresh-water prawns	Fish-ponds	Post-larvae 1/	Other species 2/
Acreage:					
1976	235	26	192	17	
1977	246	33	192	31	
1978	320	107	192	31	
1979	493	275	192	1	25
1980	575	310	205	2	58
1981	547	260	199	2	86
1982	643	306	242	2	93
1983	496	239	217	2	38
Production (1,000 lbs.): 3/					
1976	94.0	43.3	19.7	...	31.0
1977	122.6	54.9	20.1	...	47.6
1978	178.5	110.2	23.3	...	45.0
1979	246.4	205.0	20.0	...	16.4
1980	320.0	300.0	20.0	...	31.0
1981	338.5	240.0	23.1	...	75.4
1982	551.2	316.6	33.8	...	200.8
1983	344.9	268.5	40.5	...	35.9
Value ($1,000):					
1976	210.0	151.6	18.5	39.9	
1977	280.6	206.0	24.7	49.9	
1978	524.7	420.0	32.7	72.0	
1979	1,531.3	787.3	22.0	500.0	222.0
1980	1,655.0	1,125.0	20.0	450.0	60.0
1981	1,868.5	1,031.0	23.0	610.0	204.5
1982	2,624.9	1,553.0	74.8	162.0	835.1
1983	1,604.8	1,347.3	97.5	(NA)	160.0

NA Not available.

1/ Juvenile freshwater prawns and marine shrimp.

2/ Oysters, brine shrimp, carp and Chinese catfish, catfish, koi, tilapia, tropical fish and aquarium plants, and trout.

3/ Excludes items not sold by weight: post-larvae, brine shrimp, koi, tropical fish, and aquarium plants.

Source: Hawaii State Department of Land and Natural Resources, Aquaculture Development Program records.

Section 20

FORESTS, FISHERIES, AND MINING

This section presents data on forests and forest products, commercial fishing, and mining and mineral products.

The most recent available statistics show 1.2 million acres of forest and water reserve and 948,000 acres of commercial timberland in the State, most of it on the Big Island. About 46,000 acres had been planted in eucalyptus and other species of trees by mid-1983. Forest products harvested in 1977 had a value of $3.5 million, including $2.3 million from logs for fiber. Forest and brushland fires burned 19,000 acres in fiscal 1983.

The commercial fish catch in fiscal year 1982 amounted to 9.2 million pounds and had a value of $11 million. *Ahi* (Yellowfin) accounted for about 30 percent of the total value. Other important species are *aku* (Skipjack), *mahimahi*, *opakapaka*, *ono*, *akule*, *opelu* and Pacific Blue Marlin. Commercial fishermen numbered 2,940; they operated some 1,300 fishing vessels, serving about 119 fishery wholesaling and processing establishments.

The value of mineral production reached $41 million in 1983, most of it in cement ($17 million) and stone ($23 million). The 1982 total was well below the all-time high reached in 1979.

Important sources of data on these subjects are the United States Census of Agriculture, United States Census of Mineral Industries and reports and records of the U.S. Bureau of Mines, National Marine Fisheries Service, and Hawaii State Department of Land and Natural Resources, Aquatic Resources Division and Forestry and Wildlife Division. *Historical Statistics of Hawaii*, Section 14, summarizes the data for earlier periods. Comparable Mainland statistics are reported in the *Statistical Abstract of the United States: 1984*, Sections 25, 26 and 27.

Table 589.-- FOREST ACREAGE, BY ISLANDS: 1970-1983

Island	Forest and water reserve, 1983 1/ (acres)	Forest land, 1970 (acres)			Planted forest, June 30, 1983 (acres)	
		Total	Commercial 2/	Noncommercial 3/	Planted in preceding year	Total standing
State total	1,186,462	1,986,400	947,800	1,038,600	59	46,279
Hawaii	697,361	1,152,500	569,400	583,100	29	17,835
Maui	155,247	239,800	67,500	172,300	30	11,546
Kahoolawe	-	15,800	-	15,800	-	-
Lanai	6,150	43,900	4,500	39,400	-	512
Molokai	46,445	78,100	34,000	44,100	-	3,205
Oahu	119,319	205,300	126,500	78,800	-	7,036
Kauai	161,970	219,900	145,900	74,000	-	6,145
Niihau	-	31,100	-	31,100	-	-
Other islands ..	-	-	-	-	-	-

1/ Forest and water reserve within conservation district, as of June 30.

2/ Includes federal military, state, miscellaneous corporate, and miscellaneous individual forest land.

3/ Unproductive or productive-reserved.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 590.-- COMMERCIAL TIMBERLAND OWNERSHIP AND VOLUME OF SAWTIMBER AND GROWING STOCK: 1977

Subject	Amount
Commercial timberland (1,000 acres)	948
Federally owned or managed	12
State or county	442
Private	494
Sawtimber net volume (million board feet)	1,047
Softwood only	17
Growing stock, net volume (million cubic feet)	202
Softwood only	4

Source: U. S. Forest Service study cited in Statistical Abstract of the United States: 1984, p. 693.

Table 591.-- FOREST AND BRUSHLAND FIRES: 1982 AND 1983

[Years ended June 30]

County	Number of fires		Acres burned	
	1982	1983	1982	1983
State total	255	170	6,919	19,130
Hawaii	104	55	2,155	15,373
Maui	94	74	4,461	851
Honolulu	46	26	260	2,697
Kauai	11	15	43	210

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry and Wildlife, records.

Table 592.-- FOREST PRODUCTS HARVESTED: 1977

Forest product	Output		Unit price (dollars)	Total value (dollars)
	Unit	Amount		
All products	...	...	...	3,465,233
Logs for lumber	MBF 1	2,750	209	574,833
Logs for craftwood	Cords 2/ ..	299	224	51,330
Logs for fiber	BDT 3/	55,502	41	2,310,500
Tree fern	Cubic feet	95,000	1.42	135,000
Fuelwood from trees	Cords 2/ ..	4,191	47	194,563
Fuelwood for charcoal	Cords 2/ ..	800	34	26,820
Fuel from mill residue ...	Tons	5,000	10.50	52,500
Round posts	Posts	32,700	3.14	102,604
Split posts	Posts	3,525	2.93	10,321
Driftwood	Cords 2/ ..	2	300	600
Pallets	Number	20	20	400
Bamboo	Lineal feet	18,844	0.04	742
Kukui nuts	Tons	13.86	362	5,020

1/ Thousand board feet.
2/ One cord equals 128 cubic feet
3/ Bone dry ton, equal to 2,000 lbs. of wood at 0 percent moisture content.

Source: Hawaii State Department of Land and Natural Resources, Division of Forestry, Hawaiian Forest Products 1977, table II.

Table 593.-- FISHERY OPERATING UNITS AND LANDINGS: 1973 TO 1983

Year	Commercial fishermen 1/	Vessels and boats 2/		Fishery establishments 3/	Landings 4/	
		Motor vessels	Boats		Quantity (1,000 lb.)	Value ($1,000)
1973 ...	2,091	104	1,097	125	14,035	6,115
1974 ...	1,992	97	1,066	123	10,990	6,028
1975 ...	2,197	109	1,278	132	9,209	6,313
1976 ...	2,367	101	1,336	135	14,761	8,879
1977 ...	2,574	101	(NA)	126	13,288	10,180
1978 ...	2,409	(NA)	1,100	(NA)	12,787	12,100
1979 ...	2,447	113	1,028	(NA)	13,664	10,659
1980 ...	2,497	134	1,055	(NA)	11,435	11,870
1981 ...	2,572	147	1,119	(NA)	13,396	18,338
1982 ...	2,480	(NA)	1,175	(NA)	14,245	14,426
1983 ...	2,940	190	1,119	119	28,829	17,896

NA Not available.

1/ Persons licensed as commercial fishermen by the Hawaii State Department of Land and Natural Resources, during years beginning July 1.

2/ A vessel is defined as a craft with a capacity of 5 net tons or more; a boat, as a craft with a capacity of less than 5 net tons.

3/ Fishery wholesaling and processing establishments.

4/ Data may differ from corresponding totals reported by the Hawaii State Department of Land and Natural Resources, Aquatic Resources Division, which, unlike the NMFS series shown here, include unsold fish.

Source: U.S. Department of Commerce, National Marine Fisheries Service, *Fishery Statistics of the United States* (annual) and records; Hawaii State Department of Land and Natural Resources, Conservation and Resources Enforcement Division, records; Hawaii State Department of Transportation, Harbors Division, *Report of Undocumented Vessel Registration* (annual).

Table 594.-- COMMERCIAL FISHING: 1962 TO 1983

[Years ended June 30]

Year	Number of commercial fishermen	Commercial fish catch 1/		
		Pounds caught	Pounds sold	Value to primary producers (dollars)
1962	940	13,800,761	13,173,259	2,870,702
1963	808	10,685,604	10,629,701	2,539,189
1964	805	12,013,869	11,970,398	2,732,125
1965	717	17,105,515	17,053,925	3,340,651
1966	715	15,985,626	15,924,854	3,318,803
1967	801	12,344,555	12,274,531	3,146,177
1968	760	12,828,387	12,740,307	3,253,538
1969	1,028	10,065,623	9,974,455	2,798,424
1970	1,264	9,786,726	9,588,319	3,585,166
1971	1,373	15,176,525	14,945,539	4,633,875
1972	1,544	15,577,669	15,246,519	5,536,521
1973	1,677	14,029,491	13,719,284	5,676,783
1974	2,085	13,997,774	13,660,574	6,234,924
1975	1,991	10,801,441	10,404,019	6,242,614
1976	2,283	11,893,141	11,332,659	7,508,395
1977	2,368	15,298,515	14,763,816	9,433,781
1978	2,574	13,672,061	13,139,142	11,115,964
1979	2,447	12,310,524	11,890,241	12,673,328
1980	2,525	10,418,964	9,946,065	10,497,456
1981	2,577	10,890,468	10,465,731	11,828,575
1982	2,525	9,178,789	8,824,348	10,754,276
1983	2,480	7,841,959	7,529,178	10,506,860

1/ Represents the total catches of all licensed commercial fishers. Includes both sea and pond catch, but excludes coral harvests. Particularly for years since 1979, data may be incomplete due to unreported aku (skipjack tuna) boat and flagline boat catches.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year (annual), as revised, and records.

Table 595.-- COMMERCIAL FISH CATCH, BY SPECIES: 1983

[Year ended June 30, 1983]

Species 1/	Pounds caught	Pounds sold	Value (dollars)
Total catch	7,859,801	7,546,185	10,519,550
Sea catch, all species 2/	7,839,341	7,526,522	10,486,845
Aku (Skipjack)	2,427,182	2,385,443	2,126,318
Ahi (Yellowfin)	1,669,191	1,599,295	2,536,231
Opelu	450,940	447,138	581,120
Akule	381,580	353,082	391,754
Pacific blue marlin	372,199	328,328	251,000
Ahipalaha	370,349	369,107	270,543
Opakapaka	238,277	230,993	721,118
Ono	220,196	202,737	505,942
Mahimahi	199,106	184,210	552,534
Hahalalu	162,677	159,321	179,787
Ahi (Bigeye)	154,936	154,273	369,906
Uku	121,584	117,345	305,683
Kahala	104,540	91,772	65,846
Ulua	97,669	91,726	148,364
Onaga	72,949	70,702	250,861
Lobster	18,205	17,508	109,066
Pond catch, all species	20,460	19,663	32,706

1/ Shown separately for all species over 100,000 lb. or $100,000.

2/ Including species not shown separately.

Source follows next table.

Table 596.-- COMMERCIAL FISH LANDINGS, BY ISLANDS: 1983

[Year ended June 30, 1983]

Island	Pounds caught	Pounds sold	Value (dollars)
State total	7,859,801	7,549,185	10,520,549
Hawaii	2,492,745	2,416,510	3,686,332
Maui	889,679	849,808	1,046,369
Lanai	22,658	21,054	24,190
Molokai	31,708	29,133	38,797
Oahu	3,757,502	3,622,051	4,763,132
Kauai	665,509	610,629	961,729

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Commercial Fish Landings for Fiscal Year -- July, 1982 through June, 1983.

Table 597.-- LIFE FORMS IN HAWAIIAN WATERS

Life form	Approximate number
Species of fish	700
Species of seaweed (algae)	400
Species of mollusks	1,000
Other known taxa of invertibrates	1,350

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Hawaii Fisheries Statistics System Design Study (draft report, August 1983), p. 7.

Table 598.-- FISH POPULATIONS AROUND SELECTED SHORELINE AREAS ON OAHU AND MAUI: YEAR ENDED JUNE 30, 1983

Location	Species	Individuals	Estimated standing crop (lb. per acre)
Marine Life Conservation Districts:			
Hanauma Bay, Oahu	87	2,400	3,658
Pupukea, Oahu	82	1,042	168
Molokini Shoals, Maui 1/	43	685	640
Artificial reefs:			
Waianae, Oahu	47	559	59
Maunalua Bay, Oahu	46	795	196
Shoreline Fisheries Management Areas:			
Waikiki-Diamond Head, Oahu 2/	130	(NA)	254
Olowalu, Maui 3/	25	252	173
Others:			
Barbers Point, Oahu	43	620	93
Waianae Outfall, Oahu	51	187	89

NA Not available.

1/ Fish count transects counted in shallow areas, not over established stations.

2/ Annual mean monthly value. Average standing crops of fishes in earlier fiscal years were: 1978, 114 pounds per acre, 1979, 217; 1980, 447; 1981, 358; and 1982, 151. All legal fishing methods were permitted in fiscal years 1978 and 1982, only pole-and-line fishing was permitted in fiscal 1981, and the area was closed to all fishing in fiscal 1979, 1980, and 1983.

3/ Potential Management Area.

Source follows next table.

Table 599.--MOST ABUNDANT FISH SPECIES AT HANAUMA BAY AND THE WAIKIKI-DIAMOND HEAD AREA: 1982-1983

[Three leading species in each area, based on both numbers per acre and pounds per acre]

Location and species	Abundance		Standing crop	
	Rank	Number per acre	Rank	Pounds per acre
Hanauma Bay: 1/				
Manini	1	1,714.0	4	372.3
Aholehole	2	479.3	9	137.2
Yellow-eyed damsel fish	3	479.3	20	39.9
Nenue	5	358.8	1	474.6
Pualu	9	190.3	2	445.0
'Ama'ama	16	130.7	3	373.5
Waikiki: 2/				
Manini	1	259.5	2	33.7
Hinalea lau-wili	2	179.1	4	17.3
Surgeon fish (Acanthurus nigrofuscus)	3	167.7	3	27.6
Kala	6	64.8	1	45.9

1/ Hanauma Bay Marine Life Conservation District, surveyed December 14, 1982.

2/ Waikiki Shoreline Fisheries Management Area, surveyed 21 times during fiscal year 1983.

Source: Hawaii State Department of Land and Natural Resources, Division of Aquatic Resources, Job Progress Report, Statewide Marine Research and Surveys, Survey of Fish and Habitat, July 1, 1982 to June 30, 1983.

Table 600.-- MINERAL INDUSTRIES: 1963 TO 1982

[Excluding mines at manufactures]

Subject	1963	1967	1972	1977	1982
Number of establishments 1/	44	12	15	7	13
With 20 employees or more	4	3	5	2	5
All employees:					
Number (1,000)	.3	.2	.3	.1	.2
Payroll (million dollars)	1.7	1.6	2.4	1.9	5.6
Production, development, and exploration workers:					
Number (1,000)	.2	.2	.2	.1	.2
Hours (millions)	.6	.4	.4	.2	.4
Wages (million dollars)	1.5	1.3	1.8	1.5	3.9
Value added in mining (million dollars)	4.9	5.0	9.0	8.1	14.8
Cost of supplies used, purchased machinery installed, etc. (million dollars)	2.1	2.3	4.1	2.9	6.5
Value of shipments and receipts (million dollars)	6.5	5.5	11.0	9.7	17.6
Capital expenditures (million dollars)	.5	1.8	2.0	1.3	3.7

1/ After 1963, data for companies without paid employees were excluded from the census of mineral industries.

Source: U.S. Bureau of the Census, 1977 Census of Mineral Industries, Geographic Area Series, Pacific Division, MIC77-A-9 (March 1981), table 1; 1982 Census of Mineral Industries, MIC82-SUM-2(P), United States (Geographic Area Statistics) (July 1984), table 1.

Table 601.-- NONFUEL MINERAL PRODUCTION SUMMARY: 1973 TO 1983

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Year	Quantity (1,000 short tons)		Value ($1,000)			
	Cement	Stone	Total	Cement	Stone	Other minerals
1973	469	7,180	35,147	13,750	18,466	2,931
1974	502	7,638	42,042	17,111	21,370	3,561
1975	469	7,569	49,710	20,704	25,319	3,687
1976	339	6,092	42,252	18,410	21,193	2,649
1977	330	5,759	39,980	16,922	19,880	3,178
1978	452	6,027	52,743	26,454	23,840	2,449
1979	481	6,869	63,904	30,423	28,969	4,512
1980	371	6,341	59,676	24,682	30,645	4,349
1981	312	6,036	58,727	23,831	31,407	3,489
1982 1/ ..	233	4,500	46,889	18,676	26,604	1,609
1983 2/ ..	205	4,500	41,173	16,770	23,003	1,400

1/ Revised from Data Book 1983, table 521.
2/ Preliminary.
Source: U.S. Department of the Interior, Bureau of Mines, Minerals Yearbook (annual); Minerals in the Economy of Hawaii (annual, 1978 and 1979); and "The Mineral Industry of Hawaii," Mineral Industry Surveys (annual).

Table 602.-- NONFUEL MINERAL PRODUCTION: 1982 AND 1983

[Production as measured by mine shipments, sales, or marketable production, including consumption by producers]

Mineral	Quantity (1,000 short tons)		Value ($1,000)	
	1982 1/	1983 2/	1982 1/	1983 2/
Total	(X)	(X)	46,889	41,173
Cement:				
Portland	227	200	18,122	16,300
Masonry	6	5	554	470
Sand and gravel (construction)	449	400	1,221	1,000
Stone:				
Crushed	4,500	4,500	26,600	23,000
Dimension	(Z)	(Z)	4	3
Other nonmetals	(X)	(X)	388	400

X Not applicable.
Z Less than 500 short tons.
1/ Revised from Data Book 1983, table 522.
2/ Preliminary.

Source: U.S. Bureau of Mines, "The Mineral Industry of Hawaii in 1983," Mineral Industry Surveys (January 13, 1984).

Section 21

CONSTRUCTION AND HOUSING

This section presents statistics on construction activity and costs, the size and composition of the housing inventory, occupancy of housing and office buildings, sales, and residential financing.

There were 19,733 building permits issued in 1983, with an estimated value of $767 million. The total included $380 million for private residential construction and $304 million for private nonresidential structures. The value of government construction contracts awarded was $278 million. Construction put in place, as indicated by the contracting tax base, totaled $905 million in 1973 and $1.35 billion in 1983. The value of land transfers in fiscal 1984 was $3.6 billion. Mortgage loans outstanding at the end of 1982 amounted to $7.7 billion. The July 1984 construction cost index for Honolulu (1967=100) was 348 for single-family residences and 367 for high-rise buildings.

The number of housing units in the State increased from 267,000 in 1974 to 360,000 in 1984. Owner occupied units numbered 113,000 in 1974 and 147,000 in 1984; the latter total included 36,000 on leased land. Condominium units, first authorized in 1961, numbered 98,000 at the end of 1982. Military and public housing accounted for 27,000 units as of 1984. Housing was in short supply throughout most of the past decade: on Oahu, the vacancy rate in March 1983, according to the Federal Home Loan Bank of Seattle, was only 1.3 percent. The average selling price of single family homes on Oahu during 1983, based on Multiple Listing Service data, was $189,000; for condominium units it was $114,000. The median contract monthly rent for the State rose from $120 in 1970 to $271 in 1980, and the median value of owner occupied single-family units increased from $35,100 to $118,100.

The principal sources for these data are the 1970 and 1980 U.S. Censuses of Housing, postal vacancy surveys issued by the Federal Home Loan Bank of Seattle, various series compiled by State and County agencies (primarily the Hawaii Housing Authority, Hawaii State Department of Planning and Economic Development, Department of Commerce and Consumer Affairs, Department of Taxation, and Bureau of Conveyances, and the four County building departments), the construction cost indexes prepared by the First Hawaiian Bank, and the Honolulu Board of Realtors reports on Multiple Listing Service activity. Many of these series are summarized in reports published by the Bank of Hawaii (particularly Construction in Hawaii, issued annually) and the First Hawaiian Bank. Persons interested in figures for earlier periods should consult Historical Statistics of Hawaii, Section 15. Mainland statistics appear in Section 28 of Statistical Abstract of the United States: 1984.

Table 603.-- NUMBER AND VALUE OF BUILDING PERMITS, BY COUNTIES: 1973 TO 1983

Year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
NUMBER ISSUED					
1973	30,581	22,767	4,260	1,132	2,422
1974	26,027	19,169	3,635	1,066	2,157
1975	23,287	16,514	3,506	1,255	2,012
1976	23,453	15,937	3,535	1,195	2,786
1977	23,406	15,793	3,536	1,173	2,904
1978	25,807	17,758	3,938	1,470	2,641
1979	26,515	18,297	4,062	1,540	2,616
1980	22,771	15,729	3,732	1,210	2,040
1981	21,395	15,141	3,427	1,276	1,551
1982 1/	16,974	11,743	2,581	1,214	1,436
1983	19,733	13,018	2,649	2,165	1,901
ESTIMATED VALUE ($1,000)					
1973	649,121	480,639	56,376	31,578	80,528
1974	831,897	594,896	85,350	36,745	114,906
1975	744,494	495,871	69,691	53,099	125,833
1976	581,226	411,497	58,137	29,921	81,671
1977	534,278	356,591	62,088	32,060	83,539
1978	756,757	421,692	81,965	59,858	193,242
1979	984,559	566,991	144,768	118,453	154,347
1980	1,278,911	745,565	146,395	133,261	253,690
1981	898,428	550,254	136,617	67,844	143,713
1982 1/	714,938	493,139	75,715	55,380	90,704
1983	767,305	410,763	95,979	142,859	117,704

1/ Revised from Data Book 1983, table 523.

Source: City and County of Honolulu Department of Buildings, Summary of Building Permits (annual); Hawaii, Kauai, and Maui County departments of public works, records.

Table 604.-- VALUE OF BUILDING PERMITS, RESIDENTIAL AND NONRESIDENTIAL, BY COUNTIES: 1973 TO 1983

[Thousands of dollars. Limited to private construction, including additions, alteration, and repairs]

Category and year	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
RESIDENTIAL					
1973	460,490	347,767	39,045	21,829	51,850
1974	538,869	376,170	49,995	19,992	92,711
1975	382,552	228,155	38,698	20,009	95,690
1976	259,348	179,674	29,243	13,346	37,086
1977	311,333	192,334	39,505	21,197	58,298
1978	437,601	223,539	60,963	49,005	104,094
1979	588,685	288,863	91,942	100,024	107,857
1980	736,624	338,259	108,360	74,795	215,209
1981	460,026	226,148	73,708	41,368	118,802
1982	327,577	202,722	61,056	28,027	35,771
1983	379,766	213,083	56,853	71,015	38,814
NONRESIDENTIAL					
1973	137,873	94,123	11,666	6,799	25,284
1974	209,904	156,961	23,920	10,908	18,114
1975	227,272	179,006	11,018	16,086	21,163
1976	196,425	144,455	10,505	3,755	37,710
1977	153,570	118,429	11,850	6,822	16,469
1978	233,006	147,059	13,408	7,711	64,829
1979	290,249	217,219	20,547	13,896	38,587
1980	480,594	346,217	37,598	58,299	38,480
1981	345,751	228,049	62,747	25,943	29,011
1982	325,495	240,200	14,153	16,209	54,933
1983	304,111	153,677	31,163	66,835	52,435

Source: First Hawaiian Bank, Hawaii's Economic Indicators. Sources, Definitions, and Trends (March 1980), pp. 28-30 and 35-37; Hawaii in 1982 (March-April 1983); and Hawaii in 1983 (March-April 1984).

Table 605.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY AWARDING AGENCY: 1974 TO 1984

[In thousands of dollars. By date of publication]

Calendar year	Total	Federal agencies	State agencies	City and County of Honolulu	Other counties
1974 ...	299,361	102,193	148,731	25,002	23,435
1975 ...	450,250	94,546	227,781	102,007	25,916
1976 ...	382,333	135,817	146,819	58,680	41,017
1977 ...	286,452	85,415	135,360	43,772	21,905
1978 ...	290,004	94,648	155,463	24,999	14,894
1979 ...	388,694	105,683	221,018	45,946	16,048
1980 ...	230,619	66,510	119,994	25,632	18,483
1981 ...	427,534	176,136	180,542	59,056	11,799
1982 ...	392,767	139,588	181,989	32,520	38,670
1983 ...	277,877	84,723	126,766	49,531	16,856
1984 ...	411,753	129,969	196,674	64,715	20,394

Source: Hawaii State Department of Planning and Economic Development, Government Construction Contracts Awarded in Hawaii, 1961-1978 (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, BIDService Weekly.

Table 606.-- GOVERNMENT CONSTRUCTION CONTRACTS AWARDED, BY LOCATION OF CONSTRUCTION: 1974 TO 1984

[In thousands of dollars. By date of publication]

Calendar year	Total	City and County of Honolulu	County of Hawaii	County of Kauai	County of Maui
1974 ...	299,361	243,465	34,842	15,095	5,959
1975 ...	450,250	354,020	41,576	31,580	23,075
1976 ...	382,333	294,072	38,656	14,310	35,296
1977 ...	286,452	221,126	26,884	11,579	26,863
1978 ...	290,004	224,074	23,384	10,140	32,406
1979 ...	388,694	313,105	33,411	12,954	29,224
1980 ...	230,619	168,131	33,766	11,079	17,642
1981 ...	427,534	349,034	48,202	17,520	12,778
1982 ...	392,767	298,638	23,009	25,431	45,688
1983 ...	277,877	218,995	20,364	7,994	30,524
1984 ...	411,753	315,510	22,981	43,147	30,114

Source: Hawaii State Department of Planning and Economic Development, *Government Construction Contracts Awarded in Hawaii, 1961-1978* (Statistical Report 129, December 13, 1978), table 1; and Trade Publishing Company, *BIDService Weekly*.

Table 607.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1983

Category and year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
New 1-family dwellings:						
1970	5,399	3,809	1,590	796	320	474
1971	5,802	3,771	2,031	1,014	348	669
1972	5,852	3,353	2,499	1,152	515	832
1973	5,420	3,008	2,412	1,143	424	845
1974	3,455	1,626	1,829	839	401	589
1975	3,042	1,078	1,964	826	343	795
1976	3,386	1,326	2,060	821	366	873
1977	4,790	2,210	2,580	1,070	429	1,081
1978	5,006	2,075	2,931	1,382	555	994
1979	5,997	3,046	2,951	1,429	512	1,010
1980	4,072	1,650	2,422	1,192	427	803
1981	2,551	768	1,783	1,032	353	398
1982	2,451	891	1,560	800	230	530
1983	3,387	1,562	1,825	880	398	547
New duplex units:						
1970	228	212	16	6	6	4
1971	100	70	30	28	-	2
1972	124	112	12	4	6	2
1973	326	312	14	6	4	4
1974	484	464	20	4	14	2
1975	242	112	130	12	16	102
1976	110	56	54	-	46	8
1977	100	84	16	4	2	10
1978	278	260	18	-	12	6
1979	208	134	74	16	44	14
1980	84	46	38	12	24	2
1981	164	42	122	18	38	66
1982	32	32	-	-	-	-
1983	138	60	78	58	6	14

Continued on next page.

Table 607.-- PRIVATE RESIDENTIAL CONSTRUCTION AND DEMOLITION AUTHORIZED BY PERMITS, BY COUNTIES: 1970 TO 1983 -- Con.

Category and year	State total	City and County of Hono-lulu	Other counties			
			Total	Hawaii	Kauai	Maui
New apartments:						
1970	5,122	3,957	1,165	389	67	709
1971	5,623	4,017	1,606	830	29	747
1972	9,023	6,952	2,071	850	365	856
1973	11,864	9,745	2,119	493	339	1,287
1974	15,203	11,070	4,133	990	501	2,642
1975	7,031	4,240	2,791	499	186	2,106
1976	3,492	3,142	350	129	-	221
1977	3,129	2,389	740	129	83	528
1978	4,327	2,111	2,216	282	610	1,324
1979	4,800	1,854	2,946	737	1,125	1,084
1980	5,163	1,854	3,309	727	769	1,813
1981	3,135	1,873	1,262	267	60	935
1982	3,038	2,553	485	245	118	122
1983	1,341	1,220	121	38	73	10
Units demolished:						
1970	930	642	288	*100	112	*76
1971	857	596	261	80	87	94
1972	956	669	287	70	82	135
1973	1,156	874	282	102	60	120
1974	983	703	280	162	73	45
1975	913	632	281	135	11	135
1976	857	613	244	92	6	146
1977	906	696	210	96	15	99
1978	696	558	138	81	5	52
1979	611	460	151	60	15	76
1980	766	665	101	63	6	32
1981	686	521	165	21	70	74
1982 1/.............	568	443	125	34	1	90
1983 2/	505	385	120	54	4	62

* Estimated by DPED.

1/ Data exclude housing units destroyed by Hurricane Iwa on November 23-24, 1982 (127 in the City and County of Honolulu and 543 in the County of Kauai). Revised from Data Book 1983, table 527.

2/ Excludes 16 structures destroyed by volcanic activity in Hawaii County.

Source: Compiled from County building departments by the Hawaii State Department of Planning and Economic Development.

Table 608.-- ESTIMATED VALUE PER UNIT, BY TYPE OF STRUCTURE, FOR BUILDING PERMITS ISSUED BY THE CITY AND COUNTY OF HONOLULU: 1979 TO 1984

[In dollars. Excludes building permits for additions, alterations and repair]

Year issued	Single-family	Two-family	Multi-family	Hotel 1/
1979	54,373	43,041	43,399	(2/)
1980	52,755	72,768	65,660	54,301
1981	72,044	69,071	70,710	(2/)
1982	59,719	85,511	44,727	(2/)
1983	68,819	62,808	50,552	(2/)
1984	70,230	53,230	37,892	(2/)

1/ Estimated value per room.

2/ No permit issued.

Source: City and County of Honolulu Department of Building, "Summary of Building Permits" (annual).

Table 609.-- CONDOMINIUM PROJECTS REGISTERED WITH THE STATE OF HAWAII: 1979 TO 1983

Calendar year	Projects	Units	
		Residential	Business or commercial
1979	150	11,805	82
1980	156	9,953	594
1981	98	3,172	1,213
1982	48	1,500	472
1983	56	3,024	410

Source: Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 610.-- NUMBER OF CONDOMINIUM UNITS BUILT AND STANDING: 1972 TO 1982

Year	Condominium units added to inventory during year					Condominium units standing, Dec. 31
	All types	1-family and duplex	Town-house	Low-rise	High-rise	
1972	2,835	12	770	914	1,139	22,473
1973	6,741	36	1,596	1,619	3,490	29,214
1974	9,275	235	1,775	2,112	5,153	38,489
1975	10,798	68	1,760	2,922	6,043	49,287
1976	7,357	112	655	260	6,330	56,644
1977	3,321	40	942	883	1,456	59,965
1978	3,210	4	604	810	1,792	63,175
1979	6,816	97	1,156	1,447	4,116	69,991
1980	10,441	74	3,263	2,553	4,551	80,432
1981	9,704	67	2,745	4,825	2,067	90,136
1982	7,795	201	1,298	3,544	2,752	97,931

Source: Bank of Hawaii, Construction in Hawaii, 1983 (1983), p. 7.

Table 611.-- HOUSING UNITS CONVERTED FROM RENTAL UNITS TO CONDOMINIUM UNITS: 1963 TO 1983

Calendar year	Projects	Housing units
1963-69	20	768
1970-74 1/	33	1,680
1975-79 1/	83	4,041
1980	71	3,397
1981	27	661
1982	12	227
1983	12	596
Total, 1963-83	258	11,370

1/ For annual data, see the Data Book 1981, table 471.

Source: 1963-1980 compiled by Real Estate Research Center, College of Business Administration, University of Hawaii, from the records of the Hawaii Real Estate Commission; 1981 and later years from Hawaii State Department of Commerce and Consumer Affairs, Professional and Vocational Licensing Division, records.

Table 612.-- HONOLULU CONSTRUCTION COST INDEXES: 1974 TO 1984

[1967=100. Data are annual averages unless otherwise specified]

Year	Single-family residence			High-rise building		
	All components	Materials prices	Labor 1/	All components	Materials prices	Labor 1/
1974	164.6	159.0	171.6	163.7	154.6	175.6
1975	175.7	167.1	186.6	178.8	171.3	185.3
1976	193.9	176.3	215.9	199.1	178.5	216.9
1977	221.2	197.7	251.2	221.9	188.1	251.2
1978	243.4	218.7	274.5	241.3	204.7	273.1
1979	266.2	248.3	288.8	264.3	237.6	287.5
1980	283.2	263.8	307.8	290.1	270.5	307.1
1981	291.2	254.2	337.9	308.2	274.6	337.4
1982	304.7	250.6	372.9	330.3	281.4	372.7
1983:	331.5	276.5	400.9	352.1	294.6	402.0
1984: July 2/	347.9	279.4	434.4	366.7	291.8	431.6

1/ Wages and benefits.
2/ Preliminary.
Source: First Hawaiian Bank, Research Department, records.

Table 613.-- CHARACTERISTICS OF CONSTRUCTION INDUSTRIES AND SUBDIVIDERS AND DEVELOPERS: 1972 AND 1977

Industry	SIC code	Number of establishments		Proprietors and working partners	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	2,318	3,170	1,327	2,020
Construction industries	15-17	2,183	3,029	1,265	1,848
General building contractors and operative builders ...	15	703	843	343	459
Heavy construction general contractors	16	92	114	39	50
Special trade contractors ..	17	1,387	2,072	882	1,340
Subdividers and developers, n.e.c.	6552	135	145	62	172

Industry	SIC code	All employees 1/		All business receipts ($1,000)	
		1972	1977	1972	1977
Construction industries and subdividers and developers	...	25,012	20,792	1,109,328	1,508,865
Construction industries	15-17	24,460	20,187	1,046,508	(D)
General building contractors and operative builders ...	15	9,900	7,944	563,928	779,765
Heavy construction general contractors	16	3,147	2,319	124,794	(D)
Special trade contractors ..	17	11,413	9,924	357,785	469,024
Subdividers and developers, n.e.c.	6552	552	607	62,819	(D)

D Withheld to avoid disclosing data for individual companies.

n.e.c. Not elsewhere classified.

1/ Average of totals for mid-March, mid-May, mid-August, and mid-November.

Source: U.S. Bureau of the Census, 1977 Census of Construction Industries, Geographic Area Series, Pacific States, CC77-A-9 (August 1980), p. 51-4.

Table 614.-- GENERAL EXCISE TAX BASE FOR CONTRACTING: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Amount	Year reported 1/	Amount
1974	1,027,195	1980	1,569,658
1975	1,161,913	1981	1,613,764
1976	1,012,952	1982	1,294,871
1977 2/	983,618	1983	1,353,405
1978 2/	1,060,898	1984	1,242,929
1979	1,325,460		

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 615.-- TENURE AND CONTROL OF HOUSING UNITS: 1970 TO 1984

[Data include condominium units occupied or intended for occupancy by nonresidents]

Year	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units		
		Land owned	Land leased	Private 3/	Federal 4/	State and County 4/
1970 ..	216,774	68,422	20,802	106,821	14,439	6,290
1971 ..	228,749	72,086	21,732	113,531	15,089	6,311
1972 ..	238,770	75,939	24,565	117,111	14,959	6,196
1973 ..	250,742	78,878	26,776	123,934	15,071	6,083
1974 ..	266,828	82,494	30,333	131,368	16,373	6,260
1975 ..	284,120	85,264	30,543	145,276	16,386	6,651
1976 ..	298,339	88,284	33,730	152,578	17,225	6,522
1977 ..	306,989	89,980	34,549	158,223	17,493	6,744
1978 ..	315,513	92,989	35,869	161,728	18,653	6,274
1979 ..	324,261	96,273	36,540	165,045	19,022	7,381
1980 ..	334,235	100,478	36,986	170,963	19,437	6,371
1981 ..	342,873	104,677	37,413	174,753	19,427	6,603
1982 ..	348,980	106,147	37,372	179,579	19,392	6,490
1983 5/	353,414	108,761	35,586	183,249	19,304	6,514
1984 ..	359,654	111,767	35,545	185,657	19,294	7,391

NA Not available.

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions. The number of owner occupied housing units reported by the U.S. Census of Housing is somewhat higher than the corresponding number based on taxpayer home exemptions, chiefly because of differences in definitions. Data for 1977-1984 refer to January 1; data for 1970-1976, to July 1.

3/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus not attributable to any specific date.

4/ As of April 1. Data include housing units leased from private owners.

5/ Revised from Data Book 1983, table 535.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1984 (Statistical Report 167, August 20, 1984), table 3.

Table 616.-- HOUSING UNITS, RESIDENT AND NONRESIDENT, AND POPULATION PER RESIDENT UNIT: 1977 TO 1984

Year	Housing units			Resident population 1/	
	Total 2/	Resident	Nonresident 3/	Total 4/	Per unit
1977	306,989	301,067	5,922	916,000	3.04
1978	315,513	308,335	7,178	929,000	3.01
1979	324,261	314,802	9,459	950,000	3.02
1980	334,235	322,454	11,781	969,000	3.01
1981	342,873	328,736	14,137	981,000	2.98
1982	348,980	334,798	14,182	997,000	2.98
1983	353,414	339,828	13,586	1,023,000	3.01
1984	359,654	340,547	19,107	1,040,000	3.05

1/ Includes persons living in group quarters.

2/ As of April 1.

3/ Condominium units in rental pools for transient occupancy, as of June.

4/ As of July 1. The 1984 figure is an unofficial estimate by DPED.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1984 (Statistical Report 167, August 20, 1984), table 3; Hawaii Visitors Bureau, Visitor Plant Inventory, June issues; present report, table 3.

Table 617.-- HOUSING UNITS STANDING, BY COUNTIES: ANNUALLY, 1970 TO 1984

[As of April 1. Data include condominium units occupied or intended for occupancy by nonresidents]

Year	State total	City and County of Honolulu	Other counties			
			Total	Hawaii	Kauai	Maui
1970 ..	216,774	174,742	42,032	18,972	9,021	14,039
1971 ..	228,749	184,101	44,648	20,061	9,298	15,289
1972 ..	238,770	190,973	47,797	21,648	9,555	16,594
1973 ..	250,742	198,970	51,772	23,578	10,092	18,102
1974 ..	266,828	210,940	55,888	25,282	10,700	19,906
1975 ..	284,120	223,647	60,473	26,694	11,347	22,432
1976 ..	298,339	232,669	65,670	28,131	11,934	25,605
1977 ..	306,989	237,571	69,418	29,453	12,433	27,532
1978 ..	315,513	243,103	72,410	30,579	12,841	28,990
1979 ..	324,261	247,465	76,796	32,283	13,610	30,903
1980 ..	334,235	252,038	82,197	34,215	14,828	33,154
1981 ..	342,873	254,969	87,904	36,180	16,314	35,410
1982 ..	348,980	256,967	92,013	37,738	17,081	37,194
1983 1/	353,414	259,574	93,840	38,702	16,937	38,201
1984 ..	359,654	263,448	96,206	39,763	17,539	38,904

1/ Revised from Data Book 1983, table 536.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1984 (Statistical Report 167, August 20, 1984), table 4.

Table 618.-- TENURE AND CONTROL OF HOUSING UNITS, BY COUNTIES: 1984

[Data include condominium units occupied or intended for occupancy by nonresidents]

County	All housing units 1/	Owner occupied units 2/		Renter occupied and vacant units 3/		
		Land owned	Land leased	Private 4/	Federal 1/	State and County 1/
State total	359,654	111,767	35,545	185,657	19,294	7,391
City and County of Honolulu	263,448	76,401	33,627	128,665	19,146	5,609
County of Hawaii	39,763	17,356	1,077	20,276	56	998
County of Kauai	17,539	6,412	167	10,568	64	328
County of Maui	38,904	11,598	674	26,148	28	456

1/ As of April 1.

2/ As indicated by the number of taxpayers claiming home exemptions, as of January 1.

3/ Data for both Federal and State agencies include housing units leased by these agencies from private owners. All data are as of April 1.

4/ Calculated as a residual after accounting for the known components, some of which pertain to dates other than April 1, and thus are not attributable to any specific date.

Source: Hawaii State Department of Planning and Economic Development, Housing Unit Estimates for Hawaii, 1970-1984 (Statistical Report 167, August 20, 1984), table 2.

Table 619.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, AND 1979

Subject	1979	1976	1970
All housing units	248,100	219,600	174,200
TENURE AND VACANCY STATUS			
All year-round housing units	247,900	219,300	174,100
Occupied	231,000	200,400	164,800
Owner occupied	117,200	96,100	74,200
Percent	50.7	47.9	45.0
Cooperatives and condominiums	20,700	(NA)	(NA)
Renter occupied	113,800	104,300	90,600
Vacant year-round 1/	16,900	18,900	9,300
Homeowner vacancy rate	0.8	5.0	1.5
Rental vacancy rate	6.0	6.0	4.7
STRUCTURAL CHARACTERISTICS			
Units in structure: percent 1, detached	50.9	52.5	56.7
Year built: percent 1939 or earlier	11.1	12.6	15.7
Plumbing facilities: percent lacking some or all	1.5	1.6	3.0
Bathrooms: percent 2 or more	34.4	32.3	26.4
Kitchen facilities: percent incomplete or shared	2.1	2.7	2.9
Rooms: median	4.7	4.7	4.6
Bedrooms: percent 3 or more	51.8	53.5	50.9
Heating equipment: percent none	97.4	97.1	95.5
Air conditioning: percent none	81.3	81.8	86.7
Basement: percent none	91.4	92.1	(NA)
Public sewer: percent not linked	8.4	11.2	14.4
OCCUPANCY CHARACTERISTICS			
Persons per occupied unit	3.18	3.30	3.60
Percent 1.01 or more persons per room:			
Owner occupied	6.4	7.5	15.5
Renter occupied	11.2	12.1	22.0
Percent moved into unit past 12 months:			
Owner occupied	9.2	8.6	(NA)
Renter occupied	34.5	39.8	(NA)

Continued on next page.

Table 619.-- CHARACTERISTICS OF THE HOUSING INVENTORY, FOR OAHU: 1970, 1976, AND 1979 -- Con.

Subject	1979	1976	1970
FINANCIAL CHARACTERISTICS			
Median income of families and primary individuals:			
Owner occupied	$28,900	$23,600	$14,900
Renter occupied	$12,800	$11,000	$8,000
Owner occupied 1-unit structures:			
Median value	$125,600	$79,600	$38,400
Median value-income ratio	4.2	3.1	2.6
Median selected monthly housing costs --			
Units with a mortgage	$474	$381	(NA)
Units with no mortgage	$102	$81	(NA)
Renter occupied:			
Median gross rent	$278	$234	$141
Nonsubsidized units	$288	$241	(NA)
Median gross rent as percent of income	26	26	22
Nonsubsidized	26	27	(NA)
Median contract rent	$254	$216	$132

Footnotes and source follow next table.

Table 620.-- SELECTED OCCUPANCY, UTILIZATION, AND NEIGHBORHOOD CHARACTERISTICS OF OCCUPIED HOUSING UNITS, BY TENURE, FOR OAHU: 1979

Subject	Owner occupied	Renter occupied
Total housing units	117,200	113,800
Occupancy and utilization characteristics:		
Without garbage collection service	1,700	2,300
With signs of mice or rats	10,500	8,800
With structural deficiencies	14,900	20,800
Overall opinion of structure "fair" or "poor"	11,300	33,600
Neighborhood conditions:		
With street or highway noise	40,300	49,800
With airplane traffic noise	23,500	22,800
With heavy traffic	26,800	31,100
With streets in need of repair	10,400	16,600
With roads impassable	3,700	6,400
With occupied housing in rundown condition	6,100	11,400
With commercial or nonresidential activities	11,500	20,000
With odors, smoke, or gas	8,200	10,200
With inadequate street lights	6,700	14,100
With neighborhood crime	28,600	26,000
With trash, litter, or junk	9,900	13,800
With boarded-up or abandoned structures	1,400	3,300
Neighborhood services:		
With unsatisfactory public transportation	12,100	9,000
With unsatisfactory schools	6,300	4,800
With unsatisfactory shopping	8,400	8,400
With unsatisfactory police protection	6,000	7,900
With unsatisfactory outdoor recreation facilities	10,800	12,700
With unsatisfactory hospitals or health clinics	20,800	13,400
Overall opinion of neighborhood "fair" or "poor"	11,300	27,500

NA Not available.

1/ Includes units temporarily occupied by persons with usual residence elsewhere (2,700 units in 1979).

Source: U.S. Bureau of the Census, Annual Housing Survey: 1979, Honolulu, Hawaii SMSA (Current Housing Reports, H-170-79-48, August 1983).

Table 621.-- DETAILED HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and County of Honolulu	Other counties 1/		
			Hawaii	Kauai	Maui
Year-round housing units					
Percent with--					
Structure built 1970 to March 1980	38.9	35.2	47.2	42.6	56.6
Structure built 1939 or earlier ...	10.5	8.4	20.2	17.6	13.3
1 unit in structure	51.7	47.1	75.4	73.3	52.3
5 or more units in structure	38.1	41.5	18.3	18.9	41.3
Public sewer	81.5	92.7	30.5	30.0	71.7
Central heating system	8.0	9.7	3.2	1.6	2.9
Air conditioning	18.1	21.1	5.1	4.0	15.6
1 or more complete bathrooms	97.1	98.1	91.8	95.6	96.0
3 or more bedrooms	46.9	45.8	57.5	54.5	40.5
In structures with 4 or more stories	18.5	21.9	3.1	1.3	15.9
Percent with pass. elevator	91.5	91.6	65.9	79.6	96.5
Occupied housing units					
Percent with--					
Householder moved into unit 1979 to March 1980	26.8	27.4	26.3	21.4	24.0
1 or more vehicles available	89.6	88.9	91.6	93.4	92.8
Median selected monthly owner costs (dollars): 2/					
With a mortgage	463	494	371	411	383
Not mortgaged	110	119	92	106	99
Median gross rent 3/ (dollars)	311	315	266	238	361

1/ Kalawao County, although included in the State total, is not shown separately in this table.

2/ For specified owner occupied units.

3/ For specified renter occupied units.

Source: U.S. Bureau of the Census, 1980 Census of Housing, Detailed Housing Characteristics, Hawaii, HC80-1-B13 (May 1983), tables 54, 60, and 93.

Table 622.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980

Subject	State total	City and County of Honolulu	Other counties 1/		
			Hawaii	Kauai	Maui
Persons in occupied units	925,092	725,865	90,436	38,679	70,008
Per occupied unit	3.15	3.15	3.09	3.22	3.11
Total housing units	334,235	252,038	34,215	14,828	33,033
Year-round housing units:					
Number	332,213	250,866	33,954	14,544	32,728
Median rooms	4.4	4.3	4.7	4.6	3.9
One unit at address (percent)	59.5	56.6	76.1	81.1	54.9
Lacking complete plumbing for exclusive use (percent)	2.3	1.5	7.0	4.8	2.9
Occupied housing units:					
Number	294,052	230,214	29,237	12,020	22,510
With 1.01 or more persons per room (percent)	15.3	15.5	13.0	15.2	16.4
Owner-occupied units:					
Number	151,954	114,831	17,731	6,429	12,963
Percent of occ. units	51.7	49.9	60.6	53.5	57.6
Median value 2/ ($1,000)	118.1	129.5	71.2	89.7	112.1
Renter-occupied units:					
Number	142,098	115,383	11,506	5,591	9,547
Median contract rent 3/ (dollars)	271	276	220	176	306
Vacant units, total 4/	38,161	20,652	4,717	2,524	10,218
For sale only	2,153	1,321	455	98	278
Homeowner vacancy rate	1.4	1.1	2.5	1.5	2.1
For rent	16,289	9,002	1,883	1,490	3,913
Rental vacancy rate	10.3	7.2	14.1	21.0	29.1
Rented or sold, awaiting occupancy	4,518	2,415	835	321	946
Held for occasional use	4,409	2,311	853	318	906
Other vacant	10,792	5,603	691	297	4,175
Condominium units, total	71,708	56,390	3,072	1,853	10,393
Owner-occupied	24,730	23,474	298	86	872
Renter-occupied	22,053	19,812	726	154	1,361
Vacant 4/	24,925	13,104	2,048	1,613	8,160

Footnotes and source on next page.

Table 622.-- GENERAL HOUSING CHARACTERISTICS, BY COUNTIES: 1980 -- Con.

1/ Kalawao County (121 housing units), although included in the State total, is not shown separately in this table.

2/ Estimated market value of property (house and lot), for one-family houses on less than 10 acres. The median value of owner-occupied condominium units was $98,600.

3/ Excluding no cash rent.

4/ Units temporarily occupied, or intended for occupancy, entirely by persons who have a usual residence elsewhere are classified as vacant. Shared ownership or time-sharing condominiums are classified as "vacant, held for occasional use."

Source: U.S. Bureau of the Census, 1980 Census of Housing, General Housing Characteristics, Hawaii, HC80-1-A13 (July 1982), tables 1, 5, 7, 46 and 48.

Table 623.-- HOUSING UNITS, BY OCCUPANCY, AND POPULATION IN HOUSING UNITS, BY NUMBER OF STORIES: 1980

Stories in structure	Year-round housing units: Total	Year-round housing units: Occupied	Year-round housing units: Vacant or non-resident	Population in housing units: Total	Population in housing units: Per occupied housing unit
All structures 1/ ..	335,140	294,940	40,200	929,920	3.15
1 to 3	273,260	250,240	23,020	840,300	3.36
4 to 6	14,780	10,200	4,580	22,320	2.19
7 to 12	12,920	9,860	3,060	18,620	1.89
13 or more	34,180	24,640	9,540	48,680	1.98

1/ Excludes group quarters and population in group quarters.

Source: U.S. Bureau of the Census, Census of Population and Housing, 1980: Public Use Microdata Sample A - 5 Percent (Hawaii), special tabulation by DPED.

Table 624.-- HOUSING CHARACTERISTICS OF NEIGHBORHOODS, FOR OAHU: 1980

Neighborhood 1/	Occupied housing units	Occupied housing units: percent owner occupied	Renter occupied units: median rent (dollars)
Oahu total	230,214	49.9	315
Hawaii Kai	7,518	83.2	500+
Kuliouou	4,316	85.1	475
Waialae-Kahala	3,882	79.1	500+
Kaimuki	6,314	62.3	330
Diamond Head/ Kapahulu	7,853	50.5	311
Palolo	4,092	55.2	285
Manoa	6,536	59.6	352
McCully/Moiliili ...	12,188	27.5	285
Waikiki	9,852	29.8	360
Makiki/Tantalus	14,050	34.3	315
Ala Moana/Kakaako ..	5,505	31.3	310
Nuuanu/Punchbowl ...	5,361	54.9	312
Downtown	4,406	20.8	286
Liliha/Kapalama	6,429	54.2	276
Kalihi/Palama	10,837	24.7	226
Kalihi Valley	3,885	56.2	272
Moanalua	3,400	43.6	233
Aliamanu/Salt Lake .	9,290	40.6	355
Airport	5,416	0.5	275
Aiea	8,925	58.4	399
Pearl City	11,140	76.4	429
Waipahu	8,261	54.3	346
Ewa	8,988	51.0	282
Waianae Coast	7,964	51.4	313
Mililani/Waipio	7,801	76.6	404
Wahiawa	10,271	26.6	266
North Shore	3,899	40.5	324
Koolauloa	2,687	35.6	275
Kahaluu	3,360	66.2	390
Kaneohe	9,698	72.0	393
Kailua	12,099	72.3	426
Waimanalo	2,137	63.5	255
Mokapu	1,854	0.1	238

1/ For boundaries, see maps that accompany source.

Source: U.S. Bureau of the Census, Neighborhood Statistics Program, Hawaii, PHC80-SP1-13 (1983).

Table 625.-- HAWAII HOUSING AUTHORITY OPERATIONS: 1978 TO 1983

Year	Units owned by HHA 1/		Population in units 1/	Total assets 1/ ($1,000)
	Total	Occupied		
1978	5,404	5,349	16,799	83,098
1979	5,461	5,391	16,819	103,787
1980	5,466	5,459	17,522	327,960 3/
1981	5,632	5,593	17,935	337,920 3/
1982	5,795	5,754	17,876	405,650 4/
1983	5,822	5,650	18,171	407,540 4/

Year	Operating revenues of HHA 2/ ($1,000)		Operating revenues per unit per mo. 2/ (dollars)	Rent charged per unit per month (dollars) 2/
	Gross	Net		
1978	7,619	387	129.06	108.42
1979	8,488	788	131.69	121.98
1980 5/ ...	8,633	598	163.91	125.70
1981 5/ ...	10,635	920	193.58	141.27
1982 5/ ...	12,142	1,854	219.29	145.34
1983 5/ ...	12,550	1,287	220.80	150.09

1/ As of June 30.
2/ Year ended June 30.
3/ Replacement cost estimate at $60,000/unit.
4/ Replacement cost estimate at $70,000/unit.
5/ Federal projects only; revenue amounts include Federal subsidies.

Source: Hawaii Housing Authority, records.

Table 626.-- HOUSING VACANCY SURVEYS OF OAHU: 1977 TO 1983

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers. Data for 1977-1981 have been adjusted to include newly completed but vacant units, omitted from base in earlier reports. No survey was published for 1984]

Year and month	Total units	Vacant units: Used and new: Number	Vacant units: Used and new: Percent	Vacant units: Used	Vacant units: New	Units under construction
1977: April 1/ .	215,923	5,472	2.5	3,399	2,073	2,228
1978: March	226,103	5,178	2.3	3,312	1,866	4,820
1979: May	233,631	4,081	1.7	2,584	1,497	4,754
1980: March	238,028	5,104	2.1	3,039	2,065	3,980
1981: March	240,354	5,235	2.2	3,306	1,929	2,400
1982: March	244,077	4,130	1.7	2,665	1,465	1,087
1983: March	241,355	3,253	1.3	2,558	695	2,002

1/ Dated March 1977 in the original report but April 1977 thereafter. For survey data for 1955-1976, see Historical Statistics of Hawaii, p. 397.

Source: Federal Home Loan Bank of Seattle, Honolulu Housing Vacancy Survey (annual), as adjusted to 1982-1983 definitions.

Table 627.-- HOUSING VACANCY SURVEY OF OAHU: MARCH 1983

[Sponsored by the Federal Home Loan Bank of Seattle and conducted by U.S. mail carriers]

Subject	All housing types	Single-family units	Multi-family units	Mobile homes
Total units	241,355	116,126	125,229	-
Vacant units	3,253	678	2,575	-
Used	2,558	396	2,162	-
New	695	282	413	-
Percent vacant	1.3	0.6	2.1	...
Units under construction ..	2,002	497	1,505	-

Source: Federal Home Loan Bank of Seattle, Honolulu, Hawaii, Housing Vacancy Survey, March, 1983.

Table 628.-- CHARACTERISTICS OF SINGLE-FAMILY AND MULTI-FAMILY DEVELOPMENTS, FOR OAHU: 1978 TO 1983

Year	Single-family developments				Multi-family developments 1/		
	Average area (square feet)		Units sold	Average price (dollars)	Average living area (sq. ft.)	Units sold	Average price (dollars)
	House	Lot					
1978 ..	1,442	5,932	1,566	102,479	1,133	438	68,149
1979 ..	1,493	4,753	1,696	114,731	1,153	346	87,480
1980 ..	1,291	4,631	813	131,693	1,190	740	93,428
1981 ..	1,389	5,698	354	157,026	1,215	278	103,310
1982 ..	1,232	5,037	308	137,267	1,198	134	114,669
1983 ..	1,173	4,380	772	135,357	740	500	85,064

1/ Four stories or under.

Source: Bank of Hawaii, Construction in Hawaii, 1984 (1984), pp. 9 and 10.

Table 629.-- VACANCY RATES FOR HOUSING ON OAHU AND THE NEIGHBOR ISLANDS: ANNUAL AVERAGES, 1970 TO 1983

[Based on housing units sampled for the Hawaii Health Surveillance Program survey. Units occupied by households temporarily absent were classified as occupied. The base excludes units occupied by transients]

Year	Units sampled			Percent vacant		
	State total	Oahu	Other islands	State average	Oahu	Other islands
1970 1/ ..	6,107	3,217	2,890	3.2	3.5	3.0
1971	5,370	2,493	2,877	3.6	3.2	5.1
1972	7,177	5,423	1,754	3.9	3.5	5.4
1973	6,735	5,456	1,279	3.1	2.6	5.0
1974	6,301	4,982	1,319	4.1	3.9	4.7
1975	6,632	5,360	1,272	5.6	5.2	6.9
1976 2/ ..	2,440	1,817	623	5.1	5.0	5.6
1977	6,899	4,526	2,373	5.9	6.1	5.1
1978	6,690	4,102	2,588	4.0	3.8	4.5
1979	5,936	3,519	2,417	3.2	2.8	4.4
1980	6,499	3,613	2,886	4.2	3.9	5.0
1981	6,174	3,195	2,979	4.8	4.4	5.8
1982	6,509	3,468	3,041	3.9	3.4	5.4
1983	6,139	3,147	2,992	3.8	3.1	5.8

1/ Neighbor Island data based on last 9 months of 1970.

2/ Survey suspended during the first 6 months of 1976.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 630.-- PERSONS AND HOUSEHOLD HEADS, TOTAL AND CIVILIAN, CHANGING RESIDENCE IN PAST YEAR: 1971 TO 1983

[Excludes persons in institutions or barracks, in Kalawao, or on Niihau]

Year surveyed	Movers		Percent moving 1/	
	Total	Civilians 2/	Total	Civilians 2/
Persons 1 year old and over:				
1971	151,779	101,899	20.2	15.7
1972	159,796	108,331	20.7	16.3
1973	151,700	98,543	19.0	14.4
1974	133,781	90,647	16.6	12.7
1975	139,910	96,950	17.0	13.3
1976	139,922	110,100	16.6	14.4
1977	153,357	112,867	18.3	15.3
1978	148,048	110,451	15.5	14.7
1979	139,025	103,705	16.2	13.3
1980	122,691	89,981	13.5	11.1
1981	137,717	105,767	15.0	12.8
1982	147,684	115,685	15.8	13.8
1983	135,496	96,824	14.1	11.4
Household heads:				
1971	36,502	24,761	21.1	16.4
1972	46,924	31,795	21.4	16.7
1973	44,197	28,663	19.5	14.5
1974	42,602	29,399	17.9	13.8
1975	46,900	32,633	18.9	14.8
1976	49,456	39,738	18.8	16.5
1977	53,482	40,102	19.8	16.6
1978	48,875	36,968	18.9	16.0
1979	45,908	34,069	17.2	14.0
1980	40,654	29,370	14.3	11.5
1981	48,264	36,780	16.5	14.0
1982	51,817	39,870	17.2	14.7
1983	45,692	32,155	14.7	11.7

1/ Based on number reporting place of residence one year earlier.

2/ Based on military status when surveyed. Excludes members of the armed forces and their dependents.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, records.

Table 631.-- MOBILITY OF HOUSEHOLD HEADS, BY MILITARY STATUS AND COUNTIES: 1983

[Based on place of residence one year prior to survey date. Expanded from a sample of 4,950 households]

Island and military status of household head 1/	All household heads	Non-movers	Movers		Mobility not reported
			Number	Percent 2/	
State total	313,787	264,632	45,692	14.7	3,463
Military	36,145	21,388	13,536	38.8	1,221
Civilian	277,452	243,244	32,155	11.7	2,053
Status not reported	190	-	-	-	190
Oahu	240,452	202,288	35,428	14.9	2,736
Military	35,881	21,277	13,492	38.8	1,112
Civilian	204,399	181,012	21,935	10.8	1,452
Status not reported	172	-	-	-	172
Other islands	73,334	62,343	10,264	14.1	727
Hawaii	34,945	29,524	5,147	14.8	274
Kauai	13,230	11,787	1,336	10.2	107
Maui, Molokai, and Lanai	25,159	21,032	3,781	15.2	346

1/ Military status of household head at the time of the survey.

2/ Based on number reporting.

Source: Hawaii State Department of Health, Hawaii Health Surveillance Program, special tabulation.

Table 632.-- AVERAGE SALES PRICES OF SINGLE-FAMILY HOUSES, 1961 TO 1981, AND RESIDENTIAL CONDOMINIUMS, 1981

[Dollars. Data limited to nonfarm single-family houses and residential condominiums included in measurable sales during six-month periods in each surveyed year. Data for units on leased land apparently exclude land value]

Year	New (not previously occupied) single-family houses	Previously occupied	
		Single-family houses	Residential condominiums
1961	24,096	24,662	(NA)
1966	29,485	29,530	(NA)
1971	43,503	48,660	(NA)
1976	61,928	78,409	(NA)
1981	171,798	143,209	123,973
Rank 1/	1	1	1
Percent of U.S. average	203.6	215.0	155.3

NA Not available.

1/ Among 50 States and D.C.

Source: Data from U.S. Census of Governments, 1961-1971, cited in Honolulu Department of Housing and Community Development, Housing and Community Development Research, No. 35, July 1975, p. 27; U.S. Bureau of the Census, 1977 Census of Governments, Vol. 2, Taxable Property Values and Assessment/Sales price Ratios, GC77(2), November 1978, table 11, p. 87, and 1982 Census of Governments, Vol. 2, Taxable property Values and Assessment/Sales Price Ratios, GC82(2), February 1984, tables 13 and 26, pp. 47 and 257.

Table 633.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES, FOR OAHU: 1957 TO 1983

[Data include 1-family and condominium properties for all years and cooperative, income, and vacant properties through 1977]

Year	Number listed	Sold		
		Number	Percent	Average selling price (dollars)
1957	1,805	924	51.2	19,694
1958	2,064	936	45.3	21,365
1959	1,666	967	58.0	23,560
1960	1,868	795	42.6	27,808
1961	1,847	541	29.3	29,144
1962	1,522	515	33.8	29,332
1963	1,743	624	35.8	30,323
1964	1,934	882	45.6	32,951
1965	1,854	910	49.1	35,727
1966	2,137	813	38.0	35,652
1967	2,124	963	45.3	38,810
1968	2,375	1,133	47.7	42,546
1969	2,606	1,422	54.6	46,333
1970	3,415	1,693	49.6	44,755
1971	4,165	2,157	51.8	58,651
1972	6,022	4,555	75.6	60,810
1973	7,845	5,348	68.2	70,769
1974	10,933	4,821	44.1	70,918
1975	11,271	4,174	37.0	71,485
1976	10,627	4,311	40.6	75,483
1977	10,597	5,523	52.1	81,213
1978-1979 1/	9,926	5,714	57.6	82,076
1979-1980 1/	13,506	8,009	59.3	103,698
1980-1981 1/	14,090	5,553	39.4	124,897
1981 2/	13,799	3,735	27.1	144,227
1982 3/	12,704	2,874	22.6	141,176
1983	12,765	4,730	37.1	145,903

1/ Year ended February 28 or 29.
2/ Data cover period of March through December only.
3/ Revised from Data Book 1983, table 547.
Source: Honolulu Board of Realtors, records.

Table 634.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL AND CONDOMINIUM UNITS, FOR OAHU: 1973 TO 1983

Year	Number of units listed		Number of units sold	
	Residential 1/	Condominium	Residential 1/	Condominium
1973	4,148	3,185	2,699	2,379
1974	4,826	4,912	2,246	2,302
1975	4,821	5,323	2,265	1,715
1976	4,791	4,903	2,472	1,650
1977	4,452	5,422	2,985	2,285
1978-1979 2/ ...	3,522	6,404	2,139	3,575
1979-1980 2/ ...	4,105	9,401	2,253	5,756
1980-1981 2/ ...	4,352	9,738	1,820	3,733
1981	3/ 4,012	3/ 8,708	1,532	2,436
1982	4,445	8,259	1,268	1,606
1983	4,463	8,302	2,022	2,708

Year	Percent of listed units sold		Average selling price (dollars)	
	Residential 1/	Condominium	Residential 1/	Condominium
1973	65.1	74.7	85,914	46,811
1974	46.5	46.9	83,611	54,956
1975	47.0	32.2	83,797	55,596
1976	51.6	33.7	85,691	59,842
1977	67.0	42.1	94,028	61,484
1978-1979 2/ ...	60.7	55.8	114,264	67,783
1979-1980 2/ ...	54.9	61.2	151,775	84,880
1980-1981 2/ ...	41.8	38.3	169,107	103,342
1981	3/ 34.1	3/ 24.9	191,597	111,056
1982	28.5	19.4	184,227	107,185
1983	45.3	32.6	188,742	113,916

1/ Single-family structures.
2/ Year ended February 28 or 29.
3/ Data cover period of March through December only.
Source: Honolulu Board of Realtors, records.

Table 635.-- MULTIPLE LISTING SERVICE LISTINGS AND SALES OF RESIDENTIAL UNITS, BY NUMBER OF BEDROOMS, FOR OAHU: JANUARY 1 TO JUNE 30, 1983

["Residential" refers to single-family structures]

Type of property	Number of units listed	Units sold		Selling price of units sold	
		Number	Percent	Total ($1,000)	Per unit (dollars)
All units	2,308	850	36.8	167,641	197,225
No bedrooms	8	3	37.5	624	208,000
1 or 2 bedrooms	137	53	38.7	8,696	164,075
3 bedrooms	1,207	496	41.1	85,752	172,887
4 or more bedrooms	956	298	31.2	72,569	243,520

Source: Honolulu Board of Realtors, records.

Table 636.-- OFFICE BUILDING OCCUPANCY, FOR HONOLULU: QUARTERLY, 1980 TO 1984

[Floor area occupied as percent of total floor area of offices surveyed. Most of the office buildings surveyed are in the Honolulu central business district, but a few are at other locations in Honolulu]

Year	1st quarter	2nd quarter	3rd quarter	4th quarter
1980	96.6	97.9	...	98.6
1981	98.7	...	98.8	97.5
1982	...	92.4	92.2	90.2
1983	...	87.5	82.8	...
1984	...	83.1		

Source: Building Owners and Managers Association, Hawaii, Newsletter (monthly).

Table 637.-- OFFICE SPACE IN DOWNTOWN HONOLULU: 1949 TO 1984

[As of December 31]

Year	Buildings	Office space 1/ (square feet)
1949	9	423,500
1959	14	580,100
1964	20	937,700
1969	30	1,959,700
1974	37	3,403,300
1979	42	4,191,800
1980	43	4,273,800
1981	43	4,273,800
1982	45	4,769,800
1983	48	5,610,800
1984 2/	48	5,610,800

1/ 1969-1982 revised from Data Book 1983, table 551.
2/ Projected.
Source: Hawaii Business, April 1984, p. 24.

Table 638.-- AVERAGE BASE RENT AND VACANCY RATE, FOR HONOLULU OFFICE BUILDINGS: 1979 TO 1982

[As of June]

Year	Average base rent (dollars per sq. ft. per year)		Vacancy rate (percent)
	New buildings	Old buildings	
1979	10.80	9.00	2.0
1980	12.00	10.00	1.5
1981	17.40	13.20	0.4
1982	21.00	19.80	6.6

Source: Howard Ecker and Co., Chicago, "Renters Market Blooms for Honolulu Office Space Users as Building Boom Reaches New Heights," release dated June 1, 1982, reporting results of 12th semi-annual Ecker Survey.

Table 639. -- NUMBER OF DEEDS FILED AND RECORDED AND APPROXIMATE VALUE OF LAND CONVEYED: 1974 TO 1984

Year ended June 30	Number of deeds filed and recorded	Approximate value of land conveyed (dollars) 1/
1974	21,435	2,076,149,450
1975	17,892	1,308,805,819
1976	20,072	915,195,342
1977	22,618	1,771,313,731
1978	24,902	1,306,408,450
1979	28,586	3,709,276,737
1980	28,996	4,529,726,150
1981	23,213	3,960,013,179
1982	20,372	2,892,628,137
1983	22,943	3,027,487,507
1984	26,938	3,585,325,291

1/ Data include leases, agreement of sales assignments; subleases, etc., as well as deeds.

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 640.-- APPROXIMATE VALUE OF LAND TRANSFERS, BY COUNTIES: 1981 TO 1983

[In dollars. For calendar years. Totals include leases, agreement of sales assignments, subleases, etc., as well as deeds]

County	1981	1982	1983
State total	3,200,331,490	3,011,059,604	3,272,167,005
Honolulu	2,078,739,157	1,911,710,643	2,333,881,897
Maui	424,993,830	602,463,697	423,712,237
Hawaii	397,740,539	293,310,474	359,695,067
Kauai	298,857,964	203,574,790	154,877,804

Source: Hawaii State Department of Land and Natural Resources, Bureau of Conveyances, records.

Table 641.-- REAL ESTATE LICENSEES: JULY 1984

Category	Active licensees			Inactive licensees		
	Total	Residents	Nonresidents	Total	Residents	Nonresidents
Total	15,253	15,253	-	7,025	6,088	937
Broker	4,703	4,703	-	555	383	172
Salesmen	9,298	9,298	-	6,370	5,609	761
Corporation	1,154	1,154	-	97	93	4
Partnership	15	15	-	3	3	-
Branch office ..	83	83	-	-	-	-

Source: Hawaii State Department of Commerce and Consumer Affairs, Real Estate Commission, 1984 Annual Report, p. 5.

Table 642.-- MORTGAGES, FORECLOSURES, AND AGREEMENTS OF SALE: 1978 TO 1983

Year	Mortgages recorded			Foreclosures 1/ ($1,000)	Mortgage assignments ($1,000)	Agreements of sale ($1,000)
	Number	Total value ($1,000)	Average value (dollars)			
1978 ...	31,070	2,504,979	80,624	8,392	3,074	611,732
1979 ...	38,309	3,201,376	83,567	335	3,918	1,133,166
1980 ...	27,551	3,034,349	110,135	767	6,246	1,140,453
1981 ...	23,156	2,285,147	98,685	1,233	3,097	1,041,662
1982 ...	18,773	2,478,992	132,051	22,674	3,143	639,263
1983 ...	29,060	3,528,800	121,431	12,955	(NA)	406,327

NA Not available.

1/ Commercial and residential projects.

Source: Data from Title Guaranty of Hawaii and Hawaii State Bureau of Conveyances, cited in the Bank of Hawaii, Construction in Hawaii, 1984 (1984), p. 30.

Table 643.-- REAL ESTATE MORTGAGE LOANS OUTSTANDING, BY TYPE OF LENDING INSTITUTION: 1973 TO 1983

[Thousands of dollars. As of December 31]

Year	All institutions	Banks	Savings, building and loan associations	Trust companies 1/	Industrial loan companies	Insurance companies
1973	2,797,345	662,989	1,231,323	984	194,758	707,292
1974	3,210,216	751,142	1,344,025	593	291,566	822,890
1975	3,564,867	816,412	1,547,871	479	318,305	881,800
1976	3,959,529	883,500	1,841,239	2,307	284,856	947,627
1977	4,495,971	992,773	2,229,623	1,241	292,066	980,268
1978	5,320,761	1,150,080	2,762,269	1,913	330,902	1,075,597
1979	6,323,194	1,399,782	3,256,232	466	406,753	1,259,961
1980	7,131,368	1,493,470	3,708,523	77	502,964	1,426,334
1981	7,498,041	1,585,846	3,949,941	77	603,720	1,458,457
1982	7,730,172	1,620,947	3,878,564	313	779,332	1,451,016
1983	(NA)	1,714,698	3,803,628	116	589,574	(NA)

NA Not available.

1/ Excluding mortgage loans held in trust and agency accounts.

Source: Hawaii State Department of Commerce and Consumer Affairs, Bank Examination Division and Insurance Division.

Table 644.-- CHARACTERISTICS OF HOMES INSURED UNDER FHA SECTIONS 203 AND 245: 1981 AND 1982

Subject	Proposed homes		Existing homes	
	Sec. 203	Sec. 245 1/	Sec. 203	Sec. 245 1/
1981				
Volume of FHA-insured mortgages:				
Number	56	157	215	131
Amount ($1,000)	3,908	12,542	15,732	10,955
Average:				
Property value	(S)	$99,745	$111,231	$102,991
Market price of site	(S)	$65,147	$56,226	$52,090
Percent of value	(S)	65.7	50.5	50.4
Improved living area 2/ (square feet)	(S)	1,107	1,077	1,128
Age of structure 3/ (years)	...	...	9.9	7.8
Price of site per square foot	(S)	$8.82	$8.06	$7.34
Lot size (square feet)	(S)	8,393	7,734	8,097
Mortgagor's total annual income 3/	(S)	$31,428	$36,545	$31,250
Monthly cost of heating and utilities	(S)	$66.10	$71.12	$68.23
Sale price per square foot 2/	(S)	$81.26	$81.79	$76.34
Construction cost per square foot	(S)	$52.25	...	...
1982 4/				
Volume of FHA-insured mortgages:				
Number	14	55	211	68
Amount ($1,000)	1,045	1,045	17,337	6,195

S Sample too small for reliable estimate.

1/ Graduated payment mortgage program.

2/ Data based on 1-story structures.

3/ Median rather than arithmetic mean.

4/ Average characteristics not available for 1982; samples too small for reliable estimates.

Source: U.S. Department of Housing and Urban Development, FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 203 (annual) and FHA Homes. Data for States and Selected Areas on Characteristics of FHA Operations under Section 245, Graduated Payment Mortgage Program (annual).

Table 645.-- CHARACTERISTICS OF SINGLE-FAMILY HOME PURCHASES, FOR OAHU: SECOND QUARTER, 1983

[Based on a sample of conventional mortgage loans made by savings associations on single-family homes]

Subject	Amount
Borrower characteristics:	
Median age (years)	42.0
1 or 2 person households (percent)	69.2
Married (percent)	76.9
First-time buyers (percent)	31.6
Median annual income of household (dollars) 1/	52,740
Second income 2/	71.0
Home characteristics:	
Median purchase price (dollars) 3/	105,000
Age: New (percent)	7.7
25 years old or more (percent)	7.7
Median size (square feet)	1,008
Condominium (percent)	53.8
Median monthly housing expense (dollars)	950
Median downpayment (dollars)	21,599
Housing expense exceeding 25 percent of household income (percent)	41.0

1/ The U.S. median was $35,987.

2/ Percent of households with two adults in which income contributed by a second earner accounted for 10 percent or more of total household income.

3/ The U.S. median was $65,000.

Source: United States League of Savings Institutions, Homeownership: Celebrating the American Dream (1984), pp. 61 and 95.

Table 646.-- ELEVATORS, ESCALATORS, AND SIMILAR FACILITIES: DECEMBER 31, 1983

Facility	State total	Oahu	Hawaii		Maui	Molo-kai	Lanai	Kauai
			Hilo	Kona				
Total 1/	3,768	3,165	110	91	312	1	2	87
Elevators	3,218	2,673	85	88	291	-	1	80
Under 9 stories	1,764	1,305	76	88	222	-	1	72
Hydro	635	444	28	26	96	-	1	40
Roped	1,129	861	48	62	126	-	-	32
9 to 18 stories	887	806	9	-	64	-	-	8
19 to 28 stories	337	332	-	-	5	-	-	-
29 to 38 stories	169	169	-	-	-	-	-	-
39 stories or more	61	61	-	-	-	-	-	-
Escalators and moving walks	259	252	6	-	1	-	-	-
Inclined lifts	10	2	3	1	2	-	1	1
Man lifts	10	10	-	-	-	-	-	-
Dumbwaiters	269	226	16	2	18	1	-	6
Handicapped lift	1	1	-	-	-	-	-	-
Personnel hoists 1/	5	5	-	-	-	-	-	-

1/ Personnel hoists not included in totals.

Source: Hawaii State Department of Labor and Industrial Relations, Division of Occupational Safety and Health, Boiler and Elevator Inspection Bureau, records.

Table 647.-- TALLEST STRUCTURES ON OAHU: MAY 1984

Category and name or structure	Address	Year completed	Height 1/	
			Stories	Feet
Apartment buildings:				
Regency Tower II	98-288 Kaonohi St. ...	1979	43	350
Century Park Plaza	1060 Kam Hwy.	1985	43	350
Discovery Bay	1778 Ala Moana	1976	42	350
Regency Tower	2525 Date St.	1974	42	350
Century Center	1750 Kalakaua Ave. ...	1978	41	350
Yacht Harbor Towers	1600 Ala Moana	1972	40	350
Ala Nanala Apt.	990 Ala Nanala	1983	40	350
Honolulu Tower	60 No. Beretania St. .	1983	40	350
Hotels:				
Ala Moana Hotel 2/	410 Atkinson Drive ...	1970	38	396
Ala Wai Sunset	445 Seaside Ave.	1979	44	350
Pacific Beach Hotel.......	155 Liliuokalani Ave..	1979	43	350
Waikiki Ala Wai Waterfront	444 Niu St.	1979	43	350
Waikiki Lodge II	343 Hobron Lane	1979	43	350
Hyatt Regency Hotel	2424 Kalakaua Ave. ...	1976	39	350
Tapa Tower	2005 Kalia Rd.	1982	36	350
Office buildings:				
Executive Centre 3/	1088 Bishop St.	1984	41	350
Pacific Trade Center	1058 Alakea St.	1972	30	350
Grosvenor Center	735 Bishop St.	1979	30	350
1001 Bishop	1001 Bishop St.	1983	28	350
Aloha Tower	Pier 9, foot of Fort Street	1926	10	184
Towers and steeples:				
VLF Antenna 4/	Lualualei	1972	...	1,503
KGMB-TV	1534 Kapiolani Blvd. .	c. 1966	...	436
Dole Water Tower	Iwilei	1927	...	199
Central Union Church	1660 So. Beretania St.	1924	...	160

1/ For structures authorized since adoption of 350-feet height limit in 1969, data may exclude the elevator machine room.

2/ Measured to the top of the elevator machine room.

3/ Office/apartment structure.

4/ VLF Antenna of the Radio Transmitting Facility, Lualualei, of the Naval Communications Station, Honolulu. Two towers, each 1,503 feet, completed in August 1972.

Source: City and County of Honolulu, Building Department, records; Robert C. Schmitt, "Some Construction and Housing Firsts in Hawaii," The Hawaiian Journal of History, Vol. 15 (1981), pp. 100-112.

Table 648.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: 1984

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
APARTMENT HOUSE				
Hawaii:				
Bayshore Towers	Hilo	1970	15	135
Kauai:				
Waikomo Villas	Koloa	1982	4	52
Kapaa Shores	Kapaa	1974	4	48
Poipu Shores	Koloa	1975	4	48
Maui:				
Mana Kai Apartment	Kihei	1973	8	92
Polo Beach	Makena	1982	8	(NA)
HOTEL				
Hawaii:				
Naniloa Surf	Hilo	1966	12	131
Kauai:				
Kauai Surf Hotel	Lihue	1959	10	107
Sheraton Kauai Hotel	Koloa	1981	4	48
Maui:				
Royal Lahaina Hotel	Kaanapali	1970	12	132
The Whaler Hotel	Kaanapali	1975	12	110
Hyatt Regency Hotel	Kaanapali	1980	9	110
OFFICE BUILDING				
Hawaii:				
Hawaiian Telephone	Hilo	1970	4	62
Kauai:				
State Building	Lihue	1968	4	45
Maui:				
Kalana O Maui (County Bldg.)	Wailuku	1972	9	140
Wailuku Sugar Co.	Wailuku	1906	5	100

Continued on next page.

Table 648.-- TALLEST STRUCTURES ON THE NEIGHBOR ISLANDS: 1984 -- Con.

Kind of structure, island, and name	Address	Year completed	Height	
			Stories	Feet
TOWER				
Hawaii:				
Coast Guard Loran Station	Upolu Point ..	1958	...	625
Kauai:				
Communication Engineers Tower .	Mana	1964	...	400
Maui:				
KMVI Radio Tower	Wailuku	1947	...	455
KNUI Radio Tower	Kihei	1969	...	280
Molokai:				
KAIM Radio Tower	Kalua Koi	1981	...	410
OTHER STRUCTURES				
Hawaii:				
Puna Sugar Power Plant	Keaau	1971	6	(NA)
Kauai:				
Lihue Plantation Co. thermal power plant	Lihue	1981	...	114
Wilcox Memorial Hospital	Lihue	1974	4	40
McBryde Sugar Co.	Koloa	1974	3	40
Maui:				
Pioneer Mill Co. smoke stack ..	Lahaina	1928	...	220
HC and S Co. smoke stack	Puunene	1900	...	107

NA Not available.

Source: Hawaii County Department of Research and Development, May 1, 1984; Kauai County Department of Public Works, November 9, 1984; Maui County Department of Public Works, June 25, 1984.

Table 649.-- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND OTHER FACILITIES ON OAHU: 1983-1984

[Many of these figures are estimates, especially in the case of bench or pew seating, where seating capacity varies. All figures are based on fixed seating, except for the Neal Blaisdell Center Arena and the Hilton Hawaiian Village Dome. For earlier statistics, see the Honolulu Redevelopment Agency, "Seating Capacities in Hawaii, 1901-1962," Redevelopment and Housing Research, No. 22, December 1962, pp. 28-33]

Facility type and name	Seating capacity
Stadiums and sports arenas:	
Aloha Stadium	50,000
Aiea High School Stadium	9,600
Neal Blaisdell Center Arena 1/	8,731
Leilehua High School Stadium	6,500
Waipahu High School Stadium	6,500
Brigham Young University-Hawaii Activity Center	5,000
University of Hawaii Baseball Stadium	4,312
Theaters and auditoriums:	
Neal Blaisdell Center Arena 2/	8,800
Andrews Amphitheater	4,000
Neal Blaisdell Center Concert Hall	2,158
Waikiki Shell	1,958
Hilton Hawaiian Village Dome	1,500
Waikiki 3 Theater	1,337
Liberty Theater	806
Varsity Theater	800
Hawaii Theater 3/	700
Cinerama Theater	646
Queen Theater	600
Kennedy Theater	600
Ruger Theater	507
Churches:	
Kawaiahao Church	1,300
Central Union Church (Sanctuary)	800
St. Theresa's	800
St. Andrew's Cathedral	750
St. Anthony's	750
Cathedral of Our Lady of Peace	700
St. Augustine's	700
Star of the Sea	700

Footnotes and source on next page.

Table 649. -- SEATING CAPACITIES OF SELECTED STADIUMS, THEATERS, CHURCHES, AND OTHER FACILITIES ON OAHU: 1983-1984 -- Con.

[1] Capacity in boxing configuration.

[2] Capacity in concert configuration.

[3] As of 1979. In 1922, when the Hawaii Theater was opened, its capacity was 1,760, the greatest of any theater in the Territory. As of July 1984, the theater was being renovated.

Source: Compiled by the Hawaii State Department of Planning and Economic Development from the Honolulu Fire Department, Fire Prevention Bureau; The Hawaiian Journal of History, I (1967), pp. 73-82; and officials of the facilities listed.

Section 22

MANUFACTURES

This section presents statistics on the manufacturing segment of the economy, including sugar processing and pineapple canning.

The number of manufacturing establishments in Hawaii increased from 697 in 1967 to 773 in 1972 and 967 in 1982. The value added by manufacture rose from $326 million in 1967 to $410 million in 1972, $786 million in 1977, and $1,249 million in 1980. More than three-fourths of all manufacturing activity in the State in 1982 was on Oahu. Food processing -- mostly sugar and pineapple -- accounted for more than 50 percent of the value added by manufacture in 1980. Between 1973 and 1983, the general excise and use tax base increased 104 percent for sugar processing, 48 percent for pineapple canning, and 44 percent for all other manufacturing. There were two pineapple canneries and 13 sugar mills in Hawaii in mid-1983. The production of canned pineapple fruit and juices in 1981 amounted to 18 million actual cases, well below the levels of earlier years. Sugar production in 1983 amounted to 1,044,000 short tons, about the same level as in other recent years. The value of sugar production (including commercial molasses) was $410 million, compared with the record of $677 million set in 1974. Important manufactures other than food processing include apparel ($37 million in value added in 1980), printing and publishing ($134 million), and chemicals and allied products ($35 million).

Sources for data on this subject include the United States Census of Manufactures, most recently conducted for 1982, the Annual Survey of Manufactures, and publications of the Hawaii State Department of Agriculture and Department of Taxation, and Hawaiian Sugar Planters' Association. Historical Statistics of Hawaii, Section 16, reviews the figures for earlier years. Statistics for the nation as a whole appear in Section 29 of the Statistical Abstract of the United States: 1984.

Table 650.-- STATISTICAL SUMMARY OF MANUFACTURES: 1967 TO 1982

[For intercensal data, 1971-1981, see Data Book 1983, table 564]

Subject	1982	1977	1972	1967
All establishments 1/ (number) ...	967	949	773	697
With 20 employees or more	237	231	238	215
All employees:				
Number (1,000)	23.6	25.0	24.8	25.4
Payroll (million dollars)	360.4	276.8	191.1	139.6
Production workers:				
Number (1,000)	16.0	17.4	17.7	19.0
Hours (millions)	29.9	31.3	33.1	35.9
Wages (million dollars)	217.5	160.5	113.7	86.9
Value added by manufacture (million dollars)	(3/)	785.5	410.0	326.2
Cost of materials 2/ (million dollars)	2,361.3	1,176.1	548.3	399.6
Value of shipments 2/ (million dollars)	3,445.9	1,974.0	955.6	723.4
New capital expenditures (million dollars)	89.8	44.4	46.7	26.0

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

3/ 1982 data for value added have been suppressed pending further evaluation.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Pacific States, MC82-A-9(P) (October 1984), table 1, p. 3.

Table 651.-- STATISTICAL SUMMARY OF MANUFACTURES, BY COUNTIES: 1982

Subject	State total	City and County of Honolulu	Hawaii County	Kauai County	Maui County
All establishments 1/ (number) ...	967	780	99	25	63
With 20 employees or more	237	200	18	7	12
All employees:					
Number (1,000)	23.6	17.9	2.4	0.7	2.6
Payroll (million dollars)	360.4	279.4	37.9	12.1	30.9
Production workers:					
Number (1,000)	16.0	11.9	1.9	0.5	1.7
Hours (millions)	29.9	21.6	3.9	1.0	3.4
Wages (million dollars)	217.5	158.3	29.0	8.3	21.8
Value added by manufacture (million dollars)	(3/)	(3/)	(3/)	(3/)	(3/)
Cost of materials 2/ (million dollars)	2,361.3	2,082.2	130.1	58.3	90.7
Value of shipments 2/ (million dollars)	3,445.9	2,950.3	229.6	84.9	181.1
New capital expenditures (million dollars)	89.8	58.8	7.5	5.9	17.6

1/ Includes establishments with payroll at any time during the year.

2/ Aggregate cost of materials and value of shipments include extensive duplication since products of some industries are used as materials by others.

3/ 1982 data for value added have been suppressed pending further evaluation.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Pacific States, MC82-A-9(P) (October 1984), table 2, p. 5.

Table 652.-- MANUFACTURES, BY SELECTED INDUSTRY GROUP AND INDUSTRY: 1982

SIC Code	Industry group and industry 1/	Number of establishments	Number of employees (1,000)	Payroll (million dollars)	Cost of materials (million dollars)	Value of shipments (million dollars)
	All industries	967	23.6	360.4	2,361.3	3,445.9
20	Food and kindred products ...	221	11.1	161.2	678.7	1,079.5
202	Dairy products	10	.5	10.4	48.8	68.8
203	Preserved fruits and vegetables	34	3.3	36.1	137.3	234.0
2033	Canned fruits and vegetables	9	3.1	33.6	125.2	214.5
205	Bakery products	33	1.2	18.9	29.0	70.7
206	Sugar and confectionery products	29	3.6	61.6	265.0	428.1
2061	Raw cane sugar	13	2.9	52.9	214.7	350.3
2065	Confectionery products ..	14	CC	(D)	(D)	(D)
208	Beverages	12	.5	8.6	45.8	72.3
23	Apparel and other textile products	145	3.4	31.1	51.4	109.6
232	Men's and boy's furnishings	22	.8	7.5	9.4	22.9
2321	Men's and boys' shirts and nightwear	17	.7	6.1	7.6	19.3
233	Women's and misses' outerwear	78	1.7	15.7	21.7	47.5
2335	Women's and misses' dresses	62	1.4	12.8	15.9	37.3
27	Printing and publishing	177	FF	(D)	(D)	(D)
2711	Newspapers	28	EE	(D)	(D)	(D)
275	Commercial printing	93	.9	14.3	17.5	44.5
2752	Commercial printing, lithographic	65	.8	11.8	13.5	36.0
32	Stone, clay, and glass products	53	.9	19.2	41.5	80.0
327	Concrete, gypsum, and plaster products	29	.7	16.0	34.0	64.1
34	Fabricated metal products ...	42	.7	11.8	50.4	76.4
--	Auxillaries	26	.7	18.7	-	-

D Withheld to avoid disclosing data for individual companies; data are included in higher level totals.

1/ The following employee size ranges substitute for actual figures withheld to avoid disclosure: CC--500 to 199 employees; EE--1,000 to 2,499 employees; FF--2,500 employees or more.

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Pacific States, MC82-A-9(P) (October 1984), table 3, pp. 14-15.

Table 653.-- VALUE ADDED BY MANUFACTURE FOR SELECTED MAJOR INDUSTRY GROUPS: 1980

[In millions of dollars]

SIC code	Industry	Value added
	All industries	1,249.1
20	Food and kindred products	630.2
23	Apparel and other textile products	37.3
24	Lumber and wood products	12.5
27	Printing and publishing	134.1
28	Chemicals and allied products	35.3
30	Rubber and miscellaneous plastics products	1.4
34	Fabricated metal products	31.9
37	Transportation equipment	16.2

Source: U.S. Bureau of the Census, 1980 Annual Survey of Manufactures, unpublished data supplied June 15, 1983.

Table 654.-- DEPARTMENT OF DEFENSE MANUFACTURING FACILITIES: 1977 AND 1982

[These data are not included in other 1982 Census of Manufactures reports, which cover only privately operated establishments]

Subject	1977	1982
All employees (wage board and graded):		
Number	5,500	7,200
Payroll (million dollars)	107.5	230.4
Production workers (wage board):		
Number	4,200	5,500
Hours (millions)	7.6	9.7
Wages (million dollars)	84.0	174.2
Costs (million dollars):		
Materials, supplies, and pa[illegible]nsumed	28.4	47.6
Contract services and other [illegible]	21.5	15.3
Value of shipments or receipts (million dollars):		
Total billings	98.6	218.6
Total revenue	168.7	208.0
Value added by manufacture (million dollars):		
Total revenue less cost of materials	140.2	160.5
Revenue less cost of materials, contract services, other costs	118.8	145.2

Source: U.S. Bureau of the Census, 1982 Census of Manufactures, Manufacturing Activity in Government Establishments, MC82-S-2 (August 1983), tables 2 and 3.

Table 655.-- PLANT CAPACITY UTILIZATION RATES: FOURTH QUARTERS 1981 TO 1983

Year	Preferred rate 1/	Practical rate 2/
1981	80	73
1982	80	72
1983	83	73

1/ The preferred level of operations is defined as a level, normally between actual operations and practical capacity, which the manufacturer would prefer not to exceed due to costs or other considerations. In this table, the preferred utilization rate represents the ratio of actual to preferred level of operations.

2/ Practical capacity is broadly defined as the greatest output the plant could achieve within the framework of a realistic work pattern. The practical capacity utilization rate is the ratio of actual operations to the practical capacity level.

Source: U.S. Bureau of the Census, "Survey of Plant Capacity, 1982," Current Industrial Reports, MQ-C1(82)-1, November 1983, p. 19, and unpublished 1983 estimates.

Table 656.-- INDUSTRIAL PARKS AND AREAS, BY ISLANDS: 1980

Island	Number of industrial parks and areas	Acres	
		Total	Developed
State total	35	3,218.9	3,065.7
Hawaii	6	633.3	633.3
Maui	5	193.5	169.7
Oahu	21	2,330.1	2,242.7
Kauai	3	62.0	20.0
Other islands	-	-	-

Source: Hawaii State Department of Planning and Economic Development, Industrial Parks and Areas in Hawaii 1980.

Table 657.-- GENERAL EXCISE TAX BASE FOR SUGAR PROCESSING, PINEAPPLE CANNING, AND MANUFACTURING: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Sugar processing	Pineapple canning	Manufacturing 2/
1974	934,613	454,660	103,686	376,268
1975	1,166,923	605,521	131,655	429,748
1976	783,751	275,078	95,488	413,186
1977 3/ ...	862,412	284,000	111,942	466,470
1978 3/ ...	917,163	291,000	131,665	494,498
1979	1,035,159	305,738	164,200	565,221
1980	1,349,149	527,379	195,766	626,004
1981	1,218,516	415,442	172,342	630,732
1982	1,033,845	317,880	185,367	530,598
1983	1,130,369	435,579	182,967	511,823
1984	1,132,078	414,211	198,266	519,601

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January and hence these annual totals generally refer to an "income year" ended November 30.

2/ Excludes sugar processing, pineapple canning, and petroleum refining.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 658.-- PINEAPPLE COMPANIES AND CANNERIES AND SUGAR COMPANIES AND MILLS: 1973 TO 1983

Year	Pineapple 1/		Sugar 2/	
	Companies	Canneries	Companies 3/	Mills
1973	3	3	19	21
1974	3	3	17	20
1975	3	3	16	17
1976	3	3	16	17
1977	3	3	16	16
1978	3	3	15	14
1979	3	3	15	14
1980	3	3	15	14
1981	3	3	15	14
1982	3	3	15	14
1983	2	2	15	13
ISLANDS: 1983				
Hawaii	-	-	5	5
Maui	1	1	3	2
Oahu	1	1	2	2
Kauai	-	-	5	4

1/ As of end of canning season.

2/ As of December 31.

3/ Excludes United Cane Planters' Cooperative, which consists of small independent growers.

Source: The Pineapple Growers Association of Hawaii, records; Hawaiian Sugar Planters' Association, records.

Table 659.-- HAWAIIAN PINEAPPLE PRODUCTION: 1970-1971 TO 1981

[In thousands. Pack year ended May 31 through 1978-1979 and calendar years 1979, 1980, and 1981. Hawaiian pack only; excludes overseas production by Hawaiian companies. Compilation of these statistics was suspended after 1981]

Year	Canned fruit		Canned juice		Frozen concentrate	
	Actual cases	Standard cases 1/	Actual cases	Standard cases 2/	Equivalent 6/10 cases	Standard cases 2/
1970-1971 ..	17,718	12,028	10,590	8,100	1,016	929
1971-1972 ..	17,961	12,537	11,004	8,400	789	722
1972-1973 ..	15,891	11,108	9,282	7,400	633	580
1973-1974 ..	14,042	9,550	8,470	6,600	886	810
1974-1975 ..	11,584	8,110	5,643	4,400	438	400
1975-1976 ..	12,142	8,200	6,173	4,800	471	520
1976-1977 ..	12,160	8,270	7,295	5,600	346	320
1977-1978 ..	12,482	8,490	8,403	5,750	294	270
1978-1979 ..	11,142	7,620	7,386	5,760	290	265
1979	10,930	7,470	7,699	6,010	308	280
1980	9,918	6,940	8,114	6,410	237	215
1981	9,759	6,830	7,997	6,320	219	200

1/ 24 No. 2 1/2 can, 45-lb. cases.

2/ 24 No. 2 1/2 can, 42 1/2-lb. cases.

Source: The Pineapple Growers Association of Hawaii, Pineapple Fact Book/Hawaii 1973 (January 1973), p. 18, and records; Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual), and records.

Table 660.-- EMPLOYMENT AND EARNINGS IN THE PINEAPPLE INDUSTRY: 1978 TO 1983

[Includes field and cannery employment and earnings]

Year	Full-time equivalent employment	Total wages and salaries (dollars)	Earnings per full-time equivalent employee (dollars)
1978 ...	4,953	55,397,760	11,185
1979 ...	4,979	61,751,124	12,402
1980 ...	4,861	66,737,788	13,729
1981 ...	4,675	70,207,745	15,018
1982 ...	(NA)	69,223,982	(NA)
1983 ...	(NA)	65,813,990	(NA)

NA Not available.

Source: Hawaii Employers Council, unpublished estimates; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii for 1982 and 1983.

Table 661.-- SUGAR AND MOLASSES PRODUCTION: 1973 TO 1983

Year	Cane land (acres)		Cane used for sugar (short tons)	Sugar produced (short tons)		Molasses produced (short tons)
	Total area	Harvested area		96° raw value	Equivalent refined	
1973 ...	226,580	108,189	9,645,452	1,128,529	1,054,723	301,500
1974 ...	224,227	95,826	9,082,684	1,040,742	972,677	293,380
1975 ...	221,426	105,125	9,485,299	1,107,199	1,034,788	301,335
1976 ...	221,551	99,926	9,172,649	1,050,457	981,757	275,352
1977 ...	220,729	96,770	8,994,388	1,033,739	966,132	284,349
1978 ...	220,697	99,355	9,263,190	1,028,933	961,641	310,238
1979 ...	218,773	100,610	9,632,135	1,059,737	990,430	325,831
1980 ...	217,718	97,358	9,214,136	1,023,232	956,313	315,088
1981 1/	216,099	97,573	8,831,477	1,047,541	979,032	311,719
1982 1/	204,749	89,261	8,807,998	982,913	918,630	287,190
1983 ...	194,258	92,808	8,926,358	1,044,204	975,913	303,254

1/ Revised from Data Book 1983, table 573.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual 1984, pp. 4-5.

Table 662.-- AVERAGE RAW SUGAR PRICE AND SUGAR INDUSTRY EMPLOYMENT AND EARNINGS: 1973 TO 1983

Year	Average raw sugar price 1/ (cents per lb.)	Hourly-rated employees		Industry-wide strikes (weeks)	Average daily earnings 2/ (dollars)	
		Average number 3/	Total man-days		Wages	Employee benefits
1973 ...	10.30	7,900	1,897,369	-	30.86	12.48
1974 ...	29.43	7,700	1,744,346	6	34.41	15.81
1975 ...	22.49	7,800	1,937,973	-	37.34	15.66
1976 ...	13.31	7,500	1,854,272	-	43.12	17.28
1977 ...	11.11	7,200	1,660,298	3	43.92	19.97
1978 ...	13.74	7,200	1,771,530	-	47.06	21.28
1979 ...	15.20	7,065	1,762,838	-	50.49	22.21
1980 ...	30.18	7,076	1,793,237	-	56.72	24.68
1981 ...	19.74	7,282	1,806,020	-	61.51	27.71
1982 ...	19.94	6,816	1,519,732	-	65.11	30.83
1983 ...	22.04	6,543	1,565,928	-	66.80	32.00

1/ Average New York raw sugar price computed over all the days of the year (Hawaiian basis). The New York spot price was suspended from November 2, 1977 to August 20, 1979; figures for that period are based on Clearing Association settlement prices.

2/ For non-supervisory employees.

3/ Adults only.

Source: Hawaiian Sugar Planters' Association, HSPA Sugar Manual (annual), as revised.

Table 663.-- VALUE OF SALES AND GOVERNMENT PAYMENTS FOR PINEAPPLE AND SUGAR PRODUCTION: 1973 TO 1983

[In millions of dollars. Calendar year data unless otherwise specified]

Year	Pineapple		Sugar		
			Value of production		Government sugar support payments
	Canned fruit and juices 1/	Fresh market sales 2/	Raw sugar 96°	Commercial molasses	
1973 ..	135.0	7.4	203.8	18.4	9.5
1974 ..	118.2	8.85	659.2	17.4	8.6
1975 ..	126.6	10.08	354.6	11.5	-
1976 ..	130.0	14.49	245.5	11.5	-
1977 ..	140.0	21.58	219.1	7.7	48.7
1978 ..	133.4	29.45	269.5	15.7	8.1
1979 ..	176.3	30.08	322.2	23.5	-
1980 ..	192.2	34.34	566.4	27.7	-
1981 ..	172.0	45.59	314.2	13.7	-
1982 3/	156.1	49.92	343.9	7.6	-
1983 ..	171.6	47.40	396.5	13.7	-

1/ Value of canned fruit and juices and by products shipped out-of-State and sold within State. Prior to 1979, data are for pack years beginning June 1.

2/ Value FAS shipping point for outshipments, delivered wholesalers local sales.

3/ Pineapple sales revised from Data Book 1983, table 575.

Source: Hawaii Agricultural Reporting Service, Statistics of Hawaiian Agriculture (annual) and records.

Section 23

DOMESTIC TRADE AND SERVICES

This section presents statistics relating to retail and wholesale trade; hotels; and selected personal, business, automotive, repair, and amusement services.

These activities have undergone rapid growth in recent decades, in part because of higher price levels. Retail sales increased from $751 million in 1963 to $1.9 billion in 1972 and $5.2 billion in 1982. Wholesale sales rose from $1.6 billion in 1972 to $4.1 billion in 1982. Hotels, amusements, and other services reported receipts exceeding $2.6 billion in 1982, compared with $665 million in 1972. General excise and use tax base data for more recent years indicate continued increases; between 1973 and 1983, the retailing tax base rose 190 percent, the wholesaling base by 203 percent, and the base for services by 206 percent. Major retail concentrations include Waikiki, Ala Moana Center, Pearlridge Center, and downtown Honolulu. In addition to civilian retail outlets, there are many commissaries, exchanges, clubs, gasoline stations and food services maintained by the armed forces; these facilities had sales of $427 million in 1983.

Growth has been especially rapid for hotels. The number of units in the State rose from 6,800 in 1959 to 33,000 in 1971 and 64,000 in June 1984. There were 457 hotels, motels and apartment-hotels in the State on the latter date, including 290 on the Neighbor Islands. Almost one-third of all transient units were in condominium structures. Occupancy rates averaged 76.6 percent in Waikiki and 60.9 percent on the Neighbor Islands during 1983. The average daily room rate was $55 in 1983. The hotel payroll in 1983 totaled $329 million, compared with $196 million five years earlier.

Sixty-three feature motion pictures and television specials and series were filmed in Hawaii in 1983, accounting for local expenditures of $35 million.

The major source of these data are the United State Censuses of Retail Trade, Wholesale Trade, and Service Industries, most recently conducted for 1982. Statistics on the retailing, wholesaling, and services tax bases are available from the Hawaii State Department of Taxation. Data on hotel room counts, occupancy and other characteristics are published by the Hawaii Visitors Bureau and the firm of Pannell Kerr Forster. The Hawaii Film Office in the Department of Planning and Economic Development compiles data on motion picture and television production. A summary of figures on trade and services in earlier years appears in Historical Statistics of Hawaii, Section 20. The Statistical Abstract of the United States: 1984, Section 30, presents similar data for other states and the nation as a whole.

Table 664.-- RETAIL TRADE, WHOLESALE TRADE, AND SELECTED SERVICES: 1958 TO 1982

Year	Retail trade		Wholesale trade		Selected services	
	Establishments	Sales ($1,000)	Establishments	Sales ($1,000)	Establishments	Receipts ($1,000)
1958 (1963 def.)	4,760	516,177	793	618,155	3,070	101,142
1963	4,578	751,411	974	735,205	3,431	163,094
1967	5,212	1,083,458	1,030	1,013,813	4,057	310,290
1972 (1967 def.)	6,416	1,881,516	1,311	1,511,398	5,570	583,289
1972 (1972 def.)	6,392	1,864,985	1,336	1,538,429	6,348	683,201
1972 (1977 def.)	5,880	1,859,929	1,337	1,561,654	6,348	664,857
1977 (1977 def.)	7,388	3,294,118	1,569	2,571,489	8,023	1,276,163
1977 (1982 def.)	7,477	3,296,714	1,569	2,571,489	(1/)	(1/)
1982	8,917	5,193,406	1,737	4,084,369	(1/)	(1/)

1/ Comparable data not available. Service establishments with payroll and subject to Federal income tax numbered 6,124 in 1982, with receipts of $2,659,651,000.

Source: Robert C. Schmitt, Historical Statistics of Hawaii (University Press of Hawaii, 1977), pp. 513, 524, and 526. U.S. Bureau of the Census 1977 Census of Retail Trade, RC77-A-12, table 2; 1977 Census of Wholesale Trade, WC77-A-12 (Revised), table 2; 1977 Census of Service Industries, SC77-A-12, table 2; 1982 Census of Retail Trade, RC82-A-12, table 2; 1982 Census of Wholesale Trade, WC82-A-12, table 2; 1982 Census of Service Industries, SC82-A-12.

Table 665.-- GENERAL EXCISE TAX BASE FOR TRADE AND SERVICE ACTIVITIES: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Retailing	Services 2/	Theater, amusement, broadcasting, etc.	Wholesaling
1974	2,959,201	783,771	66,557	1,374,819
1975	3,382,804	919,912	74,561	1,527,057
1976	3,724,487	978,091	82,134	1,721,874
1977 3/ ...	4,222,169	1,095,066	92,827	1,989,981
1978 3/ ...	4,774,076	1,222,996	104,085	2,158,707
1979	5,519,889	1,412,195	109,143	2,800,951
1980	6,109,628	1,743,003	121,562	2,986,877
1981	6,700,750	1,809,913	129,501	3,528,763
1982	6,874,963	1,905,068	130,280	3,207,768
1983	7,438,193	2,134,524	144,095	3,694,220
1984	8,111,893	2,368,415	153,723	4,025,324

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes both business and professional services but excludes hotels, theater, amusement, broadcasting, and intermediary services.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 666.-- CHARACTERISTICS OF RETAIL ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977 1/	1982		
		State total	Oahu	Neighbor islands
All establishments:				
Number	7,477	8,917	6,347	2,570
Sales ($1,000)	3,296,714	5,193,406	3,962,598	1,230,808
Unincorporated businesses (number):				
Individual proprietorships	3,120	3,656	2,591	1,065
Partnerships	516	556	392	164
Establishments with payroll:				
Number	5,273	6,139	4,318	1,821
Sales ($1,000)	3,225,311	5,101,671	3,898,767	1,202,904
Annual payroll ($1,000)	458,782	696,438	539,170	157,268
First quarter payroll ($1,000)	111,143	164,950	127,260	37,690
Paid employees for pay period including March 12 (number)	72,098	81,979	63,620	18,359

1/ The 1977 data on total establishments, total sales, sales of establishments with payroll, and annual payroll have been revised for comparability with the 1982 data; the 1977 data on unincorporated businesses, number of establishments with payroll, first quarter payroll, and paid employees are unrevised. Unrevised figures for those data subsequently revised are as follows: total establishments, 7,388; total sales, $3,294,118,000; sales of establishments with payroll, $3,222,715,000; annual payroll, $460,322,000.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, Hawaii, RC77-A-12 (June 1979), table 1; 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 667.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
State total	8,917	5,193,406	6,139	5,101,671
Hawaii County	1,039	492,154	738	481,664
Hilo	445	285,856	345	283,381
Kailua	216	103,003	162	100,759
Balance of county	378	103,295	231	97,524
Honolulu County	6,347	3,962,598	4,318	3,898,767
Ahuimanu	16	(D)	6	(D)
Aiea	274	254,358	189	252,013
Ewa	6	(D)	4	(D)
Ewa Beach	45	10,100	17	9,604
Hauula	13	5,304	6	5,269
Heeia	10	341	-	-
Hickam Housing	-	-	-	-
Honolulu	4,595	2,859,473	3,280	2,813,522
Iroquois Point	-	-	-	-
Kahaluu	5	(D)	1	(D)
Kailua	244	152,715	154	150,387
Kaneohe	220	182,230	138	180,237
Laie	13	1,738	2	(D)
Maile	7	2,783	6	(D)
Makaha	10	3,702	4	3,633
Makakilo City	15	2,599	5	2,424
Maunawili	19	1,643	4	1,569
Mililani Town	59	23,226	20	22,233
Mokapu	1	(D)	1	(D)
Nanakuli	16	10,567	11	10,469
Pearl City	186	122,823	90	120,958
Schofield Barracks ...	3	1,430	3	1,430
Wahiawa	140	55,200	89	54,208
Waialua	14	4,717	8	(D)
Waianae	56	41,490	38	41,148
Waimanalo	33	14,349	23	14,062
Waimanalo Beach	1	(D)	-	-
Waipahu	196	133,233	123	130,512
Waipio Acres	4	331	2	(D)
Balance of county	146	57,318	94	55,667

Continued on next page.

Table 667.-- RETAIL TRADE FOR COUNTIES AND FOR PLACES WITH 2,500 INHABITANTS OR MORE: 1982 -- Con.

Geographic area	All establishments		Establishments with payroll	
	Number	Sales ($1,000)	Number	Sales ($1,000)
Kauai County	539	219,418	365	211,628
Hanamaulu	6	1,011	4	(D)
Kalaheo	14	2,724	5	2,334
Kapaa	150	47,147	102	45,487
Kekaha	10	2,146	4	1,998
Lihue	168	100,040	131	97,769
Balance of county	191	66,350	119	(D)
Maui County	992	519,236	718	509,612
Island of Lanai	11	3,728	9	(D)
Island of Molokai	45	14,147	30	13,852
Kahului	183	161,665	138	159,831
Kihei	85	42,021	56	41,442
Lahaina	309	138,309	251	135,396
Makawao	22	4,840	5	4,213
Pukalani	24	8,715	16	(D)
Wailuku	147	61,074	96	60,051
Balance of county	166	84,737	117	82,869

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), table 8.

Table 668.-- RETAIL TRADE, BY KIND OF BUSINESS: 1982 AND 1977

[Limited to establishments with payroll]

SIC code	Kind of business	Number of establishments, 1982	Sales		
			1982 ($1,000)	1977 ($1,000)	Percent change
	Retail trade	6,139	5,101,671	3,225,311	58.2
52	Building materials, hardware, garden supply	126	149,622	75,697	97.7
53	General merchandise	153	657,247	581,366	13.1
54	Food stores	797	1,081,175	651,163	66.0
55 ex. 554	Automotive dealers	227	540,566	458,497	17.9
554	Gasoline service stations ..	366	400,141	173,075	131.2
56	Apparel and accessory stores	793	379,746	208,514	82.1
57	Furniture, home furnishings, and equipment stores	335	160,828	98,135	63.9
58	Eating and drinking places .	1,741	872,558	478,966	82.2
591	Drug and proprietary stores	121	337,590	178,392	89.2
59 ex. 591	Miscellaneous retail stores	1,480	522,198	321,506	62.4

Source: U.S. Bureau of the Census, 1982 Census of Retail Trade, Hawaii, RC82-A-12 (September 1984), tables 1 and 2.

Table 669.-- MERCHANDISE LINE SALES OF RETAIL ESTABLISHMENTS WITH PAYROLL, BY BROAD GEOGRAPHIC AREAS: 1977

Merchandise line	Number of establishments		Sales of specified merchandise line ($1,000)	
	Oahu	Rest of state	Oahu	Rest of state
Total 1/	3,815	1,458	2,553,848	668,867
Groceries and other foods	657	337	448,827	159,004
Meals and snacks	1,138	363	333,143	74,666
Alcoholic drinks	501	156	75,702	13,947
Packaged alcoholic beverages	317	204	76,243	21,613
Cigars, cigarettes, and tobacco	366	230	29,565	6,004
Drugs	227	169	38,918	9,436
Health and beauty aids	329	247	60,139	11,146
Men's, boys' clothing exc. footwear	449	283	107,810	22,868
Women's, girls' wear exc. footwear	513	310	176,151	36,512
Footwear exc. infants and toddlers	299	176	51,503	7,601
Curtains, draperies, and dry goods	205	123	39,684	10,065
Major household appliances	114	56	24,471	9,284
Small electric appliances	153	89	11,400	3,587
Televisions	94	58	9,326	3,651
Audio equip., musical instr., supplies .	176	89	27,308	4,658
Furniture and sleep equipment	139	61	34,250	10,234
Floor coverings	114	58	11,431	3,509
Kitchenware and home furnishings	387	274	50,500	13,232
Jewelry	561	310	123,294	19,823
Optical goods	97	55	7,588	525
Sporting goods	160	89	41,086	9,499
Hardware and tools	126	117	19,796	11,647
Lawn and garden equip., supplies	216	120	23,764	7,971
Lumber and building materials...........	110	61	34,314	17,029
Cars, trucks, powered vehicles	66	28	269,917	67,976
Automotive fuels and lubricants	339	151	113,529	37,066
Auto tires, batteries, accessories	429	171	65,794	21,010
All other merchandise	775	433	169,278	39,123
Nonmerchandise receipts	674	275	78,812	15,894
Miscellaneous merchandise	(X)	(X)	305	287

X Not applicable.

1/ Because some establishments carry more than one merchandise line, the number of establishments for each line will not add to the indicated totals.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade: Merchandise Line Sales, Hawaii (unpublished tabulations filed in the Hawaii Department of Planning and Economic Development Library).

Table 670.-- GOODS PURCHASED AND SHOPPING CENTERS PATRONIZED BY OAHU ADULTS: 1983

[Data refer to goods purchased and shopping centers patronized by Oahu adults during preceding year, based on a survey of 506 households on Oahu conducted during November 1983]

Subject	Percent of Oahu adults
Purchases of selected items:	
Jewelry	52
Household furnishings or furniture	40
TV, stereo, or other electronic equipment	45
Small appliances	50
Sporting goods or action wear	63
Hardware, building supplies, or home improvement items	59
Automotive supplies	58
Men's or women's clothing	65
Shopping centers shopped at six times or more: 1/	
Ala Moana Center	72
Fort Street Mall	19
Kahala Mall	25
Pearlridge Center	43
The Ward Warehouse	21
Windward Mall 2/	12

1/ Excludes grocery shopping.
2/ Open less than one year.
Source: Hawaii Newspaper Agency, Shopping Centers and Department Stores (March 1984).

Table 671.-- FLOOR SPACE FOR SELECTED KINDS OF RETAIL BUSINESS: 1977

[Data limited to establishments with payroll]

Kind of business	Number of establishments	Sales ($1,000)	Under-roof floor space (1,000 sq. ft.)		Sales per square foot of selling space (dollars)	Selling space as percent of total floor space
			Total	Selling		
Hardware stores	33	11,604	177	126	92	71.2
Department stores	23	375,943	2,766	1,762	213	63.7
Variety stores	43	63,776	964	652	98	67.6
Grocery stores	396	584,218	2,687	1,857	315	69.1
Apparel and accessory stores	599	200,547	1,326	985	204	74.3
Drug and proprietary stores	103	173,509	833	592	293	71.1
Sporting goods stores ..	103	27,446	198	152	181	76.8

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), table 29.

Table 672.-- DEPARTMENT STORES, FOR THE STATE, OAHU, AND HONOLULU: 1948 TO 1982

Year	Number of stores, Dec.			Sales 1/ ($1,000)		
	State total	Oahu	Honolulu CDP 2/	State total	Oahu	Honolulu CDP 2/
1948	2	2	2	(D)	(D)	(D)
1954	4	4	2	(D)	(D)	(D)
1958	7	7	5	30,629	30,629	(D)
1963	13	13	7	71,776	71,776	63,021
1967	15	15	10	131,843	131,843	122,260
1972	19	15	10	215,428	205,619	167,758
1977	23	19	12	375,943	354,087	251,219
1982	24	21	13	483,195	453,656	322,155

D Withheld to avoid disclosing data for individual companies.

1/ Data include leased departments. Data after 1972 exclude sales taxes and finance charges.

2/ Honolulu Census Designated Place, consisting of the area southwest of the crest of the Koolau Mts., between Red Hill and Makapuu Pt.

Source: U.S. Bureau of the Census, U.S. Census of Business: 1948, Bull. No. 1-RWS-51; U.S. Census of Business: 1954, Bull. R-1-52 and CBD-47; U.S. Census of Business: 1958, BC58-RA52 and BC58-CBD36; U.S. Census of Business: 1963, BC63-RA13 and BC63-MRC-43; U.S. Census of Business, 1967, BC67-RA13 and BC67-MRC-12; Census of Retail Trade, 1972, RC72-A-12 and RC72-C-12; 1977 Census of Retail Trade, RC77-A-12 and RC77-C-12; 1982 Census of Retail Trade, RC82-A-12.

Table 673.-- EATING PLACES AND DRINKING PLACES: 1977

[Data limited to establishments with payroll]

Subject	Restaurants and lunchrooms	Cafeterias	Refreshment places	Drinking places
All establishments:				
Number of establishments	633	28	448	290
Seating capacity	69,956	(NT)	18,587	22,178
Sales ($1,000)	249,946	5,646	138,075	50,453
With waiter or waitress service:				
Number of establishments	633	-	63	267
Sales ($1,000)	249,946	-	12,501	47,339
Establishments by average cost per meal:				
Under $2.00	63	2	252	...
$2.00 to $4.99	388	26	191	...
$5.00 to $9.99	135	-	5	...
$10.00 or more	47	-	-	...
Establishments by primary type of food service:				
Tables/booths with waiter/waitress service	627	-	46	...
Counters with seats and/or standup	-	2	95	...
Self-service with inside seating	-	24	139	...
Other	6	2	168	...
Franchise holders:				
Number of establishments	30	(NT)	117	(NT)
Sales ($1,000)	17,045	(NT)	57,461	(NT)

NT Not tabulated.

Source: U.S. Bureau of the Census, 1977 Census of Retail Trade, RC77-S-2, Miscellaneous Subjects (October 1980), tables 8, 10, 12, 14, and 15.

Table 674.-- RESTAURANT CHARACTERISTICS: 1983

[Based on a survey of 1,768 restaurants]

Subject	Percent
Island, total	100.0
Oahu	71.7
Other islands	28.3
Locality, total	100.0
Business district	33.8
Tourist area	24.9
Other	41.3
Type of service, total	100.0
Fast food	27.3
Family	21.6
Other	51.1
Price, total	100.0
Inexpensive	44.2
Moderate	51.8
Expensive	4.0
Ownership, total	100.0
Independent	65.4
Chain-owned	11.6
Other types	23.0
Types of food: 1/	
American	64.4
Japanese	25.8
Chinese	19.8
Seafood	14.8
Hawaiian	14.5
Continental	12.3
Italian	11.1
Korean	8.5
Filipino	7.6
Mexican	7.1
Meals served, total	100.0
All 3 meals	36.8
Lunch and dinner only	34.0
Breakfast and lunch only	10.5
Other combinations	18.7
Average check, total	100.0
$3.00 or less	27.7
$3.01 to $6.00	37.7
$6.01 to $10.00	18.2
$10.01 or more	16.4
Average amount	$6.44
Liquor served, total	100.0
None	52.8
Liquor, beer, and wine	39.3
Other combinations	7.9
Annual food/beverage sales, total	100.0
Under $100,000	25.1
$100,000 to $299,999	26.3
$300,000 to $999,000	29.3
$1,000,000 and over	19.3
Percent of sales to tourists, total	100.0
Under 10	48.1
10 to 49	24.5
50 or more	27.5
Average number of years in business	10.0
Average number of food and beverage employees	23.9
Full-time	13.8

1/ Multiple responses.

Source: Morton Fox and Danny Breatchel, Survey of the Hawaii Restaurant Industry (University of Hawaii at Manoa, School of Travel Industry Management, 1984).

Table 675.-- MAJOR RETAIL CENTERS, FOR OAHU: 1972 TO 1982

Geographic area	Number of retail establishments			Retail sales ($1,000)		
	1972	1977	1982	1972	1977	1982
Oahu total	4,235	5,262	6,347	1,489,602	2,574,973	3,962,598
Honolulu CBD: 1/						
1972 definition ..	353	415	(NA)	65,471	94,811	(NA)
1977 definition ..	(NA)	485	523	(NA)	122,873	177,254
Ala Moana Center ...	224	187	196	218,844	307,498	423,895
Waikiki 2/	597	646	1,082	169,084	307,233	600,615
Kahala Mall	60	55	54	41,625	47,407	*82,977
Pearlridge Center ..	32	102	133	18,606	118,867	*173,953

* Excludes establishments without payroll (Kahala Mall, 1; Pearlridge Center, 3).

NA Not available.

1/ The Honolulu Central Business District was redefined in 1977 to include the area bounded by Nuuanu Stream, School Street, Queen Emma Street, Beretania Street, Richards Street, Halekauwila Street, and Honolulu Harbor. Before 1977, the CBD as defined excluded that part between Beretania Street and School Street. For comparable statistics back to 1948, see DPED Statistical Memorandum 80-7 (July 31, 1980).

2/ Waikiki is defined as the area bounded by the Ala Wai Canal, Kapahulu Avenue, and the Pacific Ocean.

Source: Hawaii State Department of Planning and Economic Development, Retail Trade in Downtown Honolulu, 1948-1977 (Statistical Memorandum 80-7, July 31, 1980). U.S. Bureau of the Census, 1972 Census of Retail Trade, Major Retail Centers, Hawaii, RC72-C-12 (November 1974), table 1; 1977 Census of Retail Trade, Major Retail Centers, Hawaii, RC77-C-12 (February 1980), table 1; 1982 Census of Retail Trade, Major Retail Centers, Hawaii, RC82-C-12 (October 1984), table 1.

Table 676.-- CHARACTERISTICS OF MAJOR SHOPPING CENTERS: 1981

[Includes all centers on Oahu with more than 200,000 square feet of building area and all centers on other islands with more than 100,000 square feet of building area]

Island and name of center	Location	Year opened	Site area (acres)	Building area (1,000 square feet)	Parking spaces	Number of stores
Oahu:						
Ala Moana Center ...	Honolulu	1958	50	1,500	7,800	155
Kahala Mall	Honolulu	1954	22	370	1,500	60
Pearl City S. C. ...	Pearl City	1965	15	249	900	36
Pearlridge Center ..	Aiea	1972	59	1,200	4,950	140
Royal Hawaiian S. C.	Honolulu	1981	6	280	600	140
Waikiki Shopping Plaza	Honolulu	1977	1.1	300	300	50
Windward Mall	Kaneohe	1982	32	540	2,350	103
Hawaii:						
Kaiko'o Mall S. C. .	Hilo	1970	14	220	950	33
Maui:						
Kaahumanu Center ...	Kahului	1973	25	276	1,400	50
Kahului S. C.	Kahului	1951	17	104	1,000	30
Maui Mall	Kahului	1971	27	203	1,250	40
Kauai:						
Lihue S. C.	Lihue	1966	9	142	551	24

Source: The Chamber of Commerce of Hawaii, Shopping Centers in Hawaii (July 1981).

Table 677.-- SHOPPING CENTERS: 1977 TO 1982

Year (Dec. 31)	Number of stores			Gross leasable area (1,000 square feet)		
	State total	Oahu	Other islands	State total	Oahu	Other islands
1977	2,374	1,719	655	9,142	7,422	1,720
1978	2,635	1,729	906	9,602	7,492	2,110
1979	2,734	1,818	916	10,002	7,806	2,196
1980	2,755	1,839	916	10,149	7,953	2,196
1981	(NA)	(NA)	(NA)	10,895	(NA)	(NA)
1982	(NA)	(NA)	(NA)	11,000	(NA)	(NA)

NA Not available.

Source: Bank of Hawaii, Hawaii 81 (August 1981), p. 30; Hawaii 1983 (1983), p. 17; Hawaii 1984 (1984), p. 30; and records.

Table 678.-- CHARACTERISTICS OF MAJOR RETAILERS: 1980 TO 1982

Name of company	Number of stores, 1982	Number of employees, 1982	Sales ($1,000)		
			1982	1981	1980
Foodland Super Market, Inc.	28	1,300	183,600	170,100	153,100
Liberty House, Inc.	51	(NA)	177,900	166,700	156,200
Duty Free Shoppers, Inc. 1/	2	1,400	167,000	159,700	152,000
Longs Drug Stores, Inc. ...	15	1,140	135,000	125,000	120,000
Sears, Roebuck and Co.	7	2,000	125,700	122,000	112,500
Times Super Market, Ltd. ..	13	900	121,000	112,300	101,100
Safeway Stores, Inc.	11	800	103,600	96,100	86,500
Star Markets, Ltd.	9	450	96,000	89,000	80,100
Servco Pacific, Inc. 2/ ...	12	1,000	95,900	93,100	85,300
J. C. Penney Co., Ltd.	5	1,350	82,000	79,400	76,000

NA Not available.
1/ Duty free sales only.
2/ Retail operations only.
Source: Hawaii Business, Vol. 29, No. 6 (December 1983), p. 63.

Table 679.-- ANNUAL SALES OF COMMISSARIES, EXCHANGES, AND CLUBS OPERATED BY THE ARMED FORCES: 1976 TO 1983

[In thousands of dollars. Data for food service facilities, incomplete before 1977, and miscellaneous facilities, incomplete before 1982, are excluded from this table but are included in the following table]

Calendar	Total	Commissaries	Exchanges	Clubs
1976	217,609	67,183	129,341	21,085
1977	223,775	66,550	133,878	23,347
1978	249,457	77,034	149,493	22,930
1979	258,307	83,595	150,159	24,554
1980	284,168	98,237	166,564	19,367
1981	317,530	107,236	191,131	19,112
1982	353,871	115,314	217,647	20,910
1983	368,811	127,229	217,171	24,411

Source follows next table.

Table 680.-- ANNUAL SALES OF RETAIL FACILITIES OPERATED BY THE ARMED FORCES, BY TYPE OF FACILITY: 1982 AND 1983

[Thousands of dollars]

Type of facility	1982	1983
Total	405,021	426,909
Commissaries	115,314	127,229
Exchanges	217,647	217,171
Clubs	20,910	24,411
Food services	17,812	13,960
Package stores	14,490	16,604
Gas stations	15,322	19,586
Vending Outlets	3,526	7,948

Source: Hawaii State Department of Planning and Economic Development, Retail Sales by the Armed Forces, 1983 (Statistical Report 166, July 10, 1984).

Table 681.-- CHARACTERISTICS OF WHOLESALE ESTABLISHMENTS, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor Islands
Number of establishments	1,569	1,737	1,417	320
Sales ($1,000)	2,571,489	4,084,369	3,392,728	691,641
Annual payroll ($1,000)	177,556	287,626	250,836	36,790
First quarter payroll ($1,000)	43,517	69,858	(NA)	(NA)
Paid employees for pay period including March 12 (number)	14,695	17,210	14,750	2,460
Operating expenses ($1,000)	375,803	620,882	(NA)	(NA)
Inventories ($1,000):				
Beginning of year	(NA)	457,525	(NA)	(NA)
End of year	248,195	440,723	(NA)	(NA)

NA Not available.

Source: U.S. Bureau of the Census, *1977 Census of Wholesale Trade, Hawaii*, WC77-A-12 (Revised) (March 1980), table 1; *1982 Census of Wholesale Trade, Hawaii*, WC82-A-12 (September 1984), tables 1, 2, 4, and 5.

Table 682.-- WHOLESALE TRADE, FOR COUNTIES AND SPECIFIED PLACES: 1982

Geographic area	All wholesalers		Merchant wholesalers	
	Number of establishments	Sales ($1,000)	Number of establishments	Sales ($1,000)
State total	1,737	4,084,369	1,434	2,496,494
Hawaii County	159	285,513	133	152,353
Hilo	107	242,071	90	(D)
Kailua	16	11,835	15	(D)
Honolulu County	1,417	3,392,728	1,169	2,140,295
Aiea	26	64,848	21	58,510
Ewa Beach	12	42,470	10	(D)
Honolulu	1,221	2,950,750	1,016	1,872,910
Kailua	30	25,978	16	5,776
Kaneohe	13	7,460	11	(D)
Pearl City	28	73,908	22	37,300
Waipahu	31	103,617	27	72,012
Kauai County	51	81,030	40	52,557
Lihue	33	55,556	25	40,755
Maui County	110	325,098	92	151,289
Island of Lanai	1	(D)	-	-
Island of Molokai ...	3	(D)	1	(D)
Kahului	54	189,855	43	(D)
Wailuku	35	41,769	32	(D)

(D) Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 8.

Table 683.-- WHOLESALE TRADE, BY TYPE OF OPERATION AND KIND OF BUSINESS: 1982

Type of operation and kind of business	Number of establishments	Sales ($1,000)
Wholesale trade	1,737	4,084,369
Type of operation:		
Merchant wholesalers	1,434	2,496,494
Manufacturers' sales branches and offices	160	1,269,797
Agents, brokers, and commission merchants	143	318,078
Kind of business:		
Motor vehicles and automotive parts and supplies	103	293,883
Furniture and home furnishings	59	68,643
Lumber and other construction materials	91	126,739
Sporting, recreational, photo, and hobby goods, toys and supplies	53	83,413
Metals and minerals, except petroleum	12	25,358
Electrical goods	107	244,951
Hardware, and plumbing and heating equipment and supplies	83	98,641
Machinery, equipment, and supplies	268	418,117
Miscellaneous durable goods	123	83,484
Paper and paper products	66	104,774
Drugs, drug proprietaries, and druggists' sundries	42	122,196
Apparel, piece goods, and notions	70	71,081
Groceries and related products	339	1,187,153
Farm-product raw materials	4	4,182
Chemicals and allied products	33	68,316
Petroleum and petroleum products	42	671,552
Beer, wines, and distilled alcoholic beverages	37	175,607
Miscellaneous nondurable goods	205	236,279

Source: U.S. Bureau of the Census, 1982 Census of Wholesale Trade, Hawaii, WC82-A-12 (September 1984), table 2.

Table 684.-- CHARACTERISTICS OF SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR THE STATE, 1977 AND 1982, AND OAHU AND THE NEIGHBOR ISLANDS, 1982

Subject	1977	1982		
		State total	Oahu	Neighbor islands
Number of establishments	(NA)	6,124	4,864	1,260
Excluding health services 1/ ...	(NA)	4,470	3,535	935
Receipts ($1,000)	(NA)	2,659,651	1,974,216	685,435
Excluding health services 1/ ...	1,269,740	2,239,440	1,642,415	597,025
Annual payroll ($1,000)	(NA)	904,328	688,918	215,410
Excluding health services 1/ ...	409,725	729,107	550,547	178,560
First quarter payroll ($1,000) ...	(NA)	221,453	169,166	52,287
Paid employees for pay period including March 12 (number)	(NA)	71,051	52,849	18,202

NA Not available.

1/ Other than hospitals.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a, 2a, 4a, and 5a.

Table 685.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, FOR COUNTIES AND SELECTED URBAN PLACES: 1982

Geographic area	Number of establishments		Receipts ($1,000)	
	All services	Hotels 1/	All services	Hotels 1/
State total	6,124	209	2,659,651	973,328
Hawaii County	551	31	258,568	142,430
Hilo	328	11	84,145	11,746
Kailua	91	11	53,919	38,275
Honolulu County	4,864	118	1,974,216	575,692
Aiea	134	2	28,124	(D)
Ewa Beach	12	-	1,796	-
Honolulu	3,958	109	1,762,672	543,972
Kailua	200	1	31,712	(D)
Kaneohe	122	-	22,444	-
Makakilo City	20	-	2,374	-
Mililani Town	16	-	3,504	-
Pearl City	103	-	20,529	-
Wahiawa	85	-	13,646	-
Waianae	24	2	10,889	(D)
Waipahu	76	-	15,329	-
Kauai County	211	22	88,590	43,623
Kapaa	34	5	13,104	8,793
Lihue	103	5	47,610	(D)
Maui County	498	38	338,277	211,583
Island of Lanai ...	5	1	677	(D)
Island of Molokai .	14	2	3,134	(D)
Kahului	145	2	59,277	(D)
Kihei	25	3	7,434	(D)
Lahaina	68	15	98,651	83,472
Wailuku	174	1	40,639	(D)

D Withheld to avoid disclosing data for individual companies.

1/ Including motels and other lodging places (SIC 70), but excluding condominium apartments in transient use.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), table 8.

Table 686.-- SERVICE ESTABLISHMENTS WITH PAYROLL AND SUBJECT TO FEDERAL INCOME TAX, BY KIND OF BUSINESS OR OPERATION: 1982 AND 1977

SIC code	Kind of business or operation	Number of establishments, 1982	Receipts 1982 ($1,000)	Receipts 1977 ($1,000)	Receipts Percent change
	Total	6,124	2,659,651	(D)	(D)
70	Hotels, motels, other lodging	209	973,328	548,706	77.4
72	Personal services	663	100,785	70,708	42.5
73	Business services	1,024	313,686	154,427	103.1
75	Automotive repair, services, and garages .	567	249,342	157,015	58.8
76	Miscellaneous repair services	241	47,779	32,369	47.6
78, 79	Amusement and recreation services, incl. motion pictures	312	128,452	79,777	61.0
80, ex. 806	Health services, except hospitals	1,654	420,211	(D)	(D)
81	Legal services	636	173,129	65,120	165.9
823, 4, 9	Selected educational services	58	8,032	6,333	26.8
891	Engineering, architectural, surveying serv.	336	158,104	107,129	47.6
893	Accounting, auditing, bookkeeping services ..	308	75,046	43,444	72.7
83, 892, 9	Social and other services	116	11,757	4,712	149.5

D Withheld to avoid disclosing data for individual companies.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), tables 1a and 2a.

Table 687.-- MEMBERSHIP ORGANIZATIONS: 1977

[Data limited to establishments with payroll, excluding religious membership organizations]

Kind of activity or operation	Number of establishments	Expenses ($1,000)	Paid employees mid-March
Membership organizations, except religious	362	49,257	2,399
Business associations	56	8,015	319
Professional membership organizations	20	3,076	104
Labor unions and similar labor organizations	68	16,640	524
Civic, social, and fraternal associations	181	18,647	1,302
Political organizations	3	392	8
Other membership organizations	34	2,487	142

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-9, Miscellaneous Subjects (June 1981), table 33.

Table 688.-- TRAVEL AGENCIES, TOUR OPERATORS, AND RELATED SERVICES: 1977

[Data limited to establishments with payroll]

Subject	Total	Travel agencies	Tour operators	Other services
STATE TOTALS				
Number of establishments	312	175	80	57
Receipts ($1,000)	74,480	28,250	37,914	8,316
Payroll, entire year ($1,000)	29,232	11,213	14,245	3,774
Paid employees, mid-March	3,512	1,259	1,738	515
OAHU				
Number of establishments	280	155	74	51
Receipts, total ($1,000)	67,357	24,917	35,911	6,529
Commissions 1/	28,794	24,175	1,478	(V)
Tour operations 2/	32,735	141	32,594	(V)
Other travel related services	5,211	407	1,492	(V)
All other receipts	617	194	347	(V)

V Insufficient coverage.

1/ Includes commissions and other receipts from the retail sale of passenger transportation and lodging.

2/ Receipts consist of the difference between the cost of assembling tours and the price received, whether sold at wholesale only or both wholesale and retail. For tour operators selling at retail only, the difference between selling price and cost is included with "commissions and other receipts."

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, SC77-S-7, Arrangement of Passenger Transportation (March 1981).

Table 689.-- HOTEL AND MOTEL CHARACTERISTICS: 1977

[Data limited to establishments with payroll]

Subject	Hotels, 25 guestrooms or more		Hotels, fewer than 25 guestrooms	Motels, tourist courts	Motor hotels
	State total	Oahu			
Establishments 1/	153	93	14	24	7
Guestrooms as of Dec. 31 2/	35,426	23,766	221	626	(D)
Receipts ($1,000):					
Receipts from customers, total	540,697	338,339	1,085	3,279	(D)
Guestroom rentals	326,858	213,947	1,044	2,509	(D)
Meals, nonalcoholic beverages	133,265	72,308	-	609	(D)
Alcoholic beverages	50,134	28,825	41	56	(D)
Packaged liquor, wine, beer 3/	1,067	1,103	-	15	(D)
Other merchandise	5,078	1,237	-	90	(D)
Other sources	24,295	20,919	-	-	(D)
Other rental, concession receipts	17,442	13,272	76	(V)	(D)
Payroll, entire year ($1,000)	159,233	98,607	318	843	(D)
Payroll, first quarter ($1,000)	39,199	24,583	79	204	(D)
Paid employees, week of March 12	21,504	13,886	63	153	(D)
Weighted average percent of occupancy	80.9	(NA)	(D)	(D)	(D)
Average rate per occupied room (dollars)	31	(NA)	(D)	(D)	(D)

D Withheld to avoid disclosing data for individual companies.
V Insufficient coverage.
NA Not available.

1/ Hotels, motels, tourist courts, and motor hotels in Hawaii (with or without payroll) numbered 236. Of the 198 with payroll, the principal class of customer was reported as commercial for 19, tourist for 165, group/convention for 9, and other or unknown for 5.

2/ Guestrooms in hotels in business at the end of the year numbered 35,647, including 35,443 for transient guests and 204 for residential guests.

3/ The Oahu total for larger hotels exceeds the Statewide total, probably because of the method for expanding data from partial returns.

Source: U.S. Bureau of the Census, 1977 Census of Service Industries, Subject Series, Hotels, Motels, and Other Lodging Places, SC-77-S-2 (April 1981), tables 1, 2, 3, 5, 10, and 15.

Table 690.-- HOTELS, MOTELS, AND OTHER LODGING PLACES: 1982

[Includes only establishments with payroll]

Subject	Number of establishments	Receipts ($1,000)	Annual payroll ($1,000)	Paid employees, pay period including March 12
SUBJECT TO FEDERAL INCOME TAX				
Hotels, motels, other lodging .	209	973,328	287,299	26,078
Hotels	178	964,192	284,833	25,718
25 guestrooms or more	158	962,079	284,296	25,644
Less than 25 guestrooms	20	2,113	537	74
Motels, motor hotels, tourist courts	26	8,935	2,421	352
Other lodging places 1/	5	201	45	8
EXEMPT FROM FEDERAL INCOME TAX				
Hotels, camps, membership lodging 2/	8	1,319	473	64

1/ Trailering parks and camps, 1 establishment; rooming, boarding, and membership lodging, 4.

2/ Hotels, 2 establishments; sporting and recreational camps, 3; organization hotels and lodging houses, on membership basis, 3.

Source: U.S. Bureau of the Census, 1982 Census of Service Industries, Hawaii, SC82-A-12 (September 1984), pp. 3 and 5.

Table 691.-- HOTEL UNITS AND OCCUPANCY RATES, BY GEOGRAPHIC AREAS: 1967 TO 1983

Year	Number of hotel units, October 1/			Percent of units occupied, annual average 2/		
	State total	Oahu	Neighbor Islands	State total 3/	Waikiki	Neighbor Islands
1967	18,235	13,004	5,231	85.5	90.0	72.8
1968	21,243	15,138	6,105	83.7	89.2	75.2
1969	25,822	18,209	7,613	77.8	81.3	69.3
1970	30,323	21,217	9,106	71.2	74.1	64.8
1971	35,349	24,612	10,737	60.4	58.9	63.5
1972	35,653	24,441	11,212	68.9	70.0	66.4
1973	37,319	24,969	12,350	77.7	81.5	70.2
1974	39,558	25,352	14,206	77.5	82.0	69.4
1975	40,691	25,699	14,992	74.1	78.3	68.3
1976	44,093	27,099	16,994	76.9	82.6	68.4
1977	46,048	28,083	17,965	77.4	81.2	71.7
1978	48,790	29,294	19,496	79.5	82.1	75.5
1979	51,782	32,088	19,694	73.8	77.1	70.2
1980	55,700	34,173	21,527	69.3	71.7	64.1
1981	57,239	33,480	23,759	68.2	73.9	59.8
1982	58,927	34,610	24,317	70.4	77.7	60.0
1983	60,198	35,761	24,437	69.7	76.6	60.9

1/ Except 1967 (December) and 1968 (November). Includes condominium units in rental pools for transient occupancy.

2/ Data for 1976 and later years omit several major hotels.

3/ Data include Oahu outside Waikiki, not shown separately.

Source: Hawaii Visitors Bureau, Annual Research Report (annual), Visitor Plant Inventory (three times a year), and records.

Table 692.-- VISITOR ACCOMMODATIONS, TOTAL AND CONDOMINIUM: 1970 TO 1984

[As of June]

Year	All visitor accommodations 1/		Condominiums 2/	
	Properties 3/	Units 4/	Properties 5/	Units 6/
1970	278	27,519	...	...
1971	282	33,163	...	...
1972	278	35,945	...	...
1973	286	37,131	...	...
1974	286	39,222	...	...
1975	300	39,977	...	...
1976	313	42,811	...	...
1977	341	46,143	...	5,922
1978	362	48,034	...	7,178
1979	384	51,185	...	9,459
1980	393	55,571	...	11,781
1981	411	56,502	200	14,137
1982	427	59,357	208	14,182
1983	430	58,901	213	13,586
1984	457	63,956	244	19,107

1/ Hotels, motels, apartment-hotels, and cottages, including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Statewide totals first reported in June 1970.

4/ For detailed data by counties, 1952 to 1984, see the Hawaii Visitors Bureau, 1983 Annual Research Report, p. 36.

5/ First reported separately in June 1981.

6/ First reported separately in February 1977.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (issued 3 times annually).

Table 693.-- HOTELS AND OTHER ACCOMMODATIONS, BY GEOGRAPHIC AREAS: JUNE 1984

Geographic area	All accommodations 1/		Condominiums 2/	
	Properties	Units	Properties	Units
State total ...	457	63,956	244	19,107
Oahu	167	37,910	53	7,964
Waikiki 3/	134	33,192	42	6,590
Rest of Oahu	33	4,718	11	1,374
Other islands	290	26,046	191	11,143
Hawaii	72	7,209	41	1,957
Kauai	68	5,501	38	1,779
Maui	142	12,695	106	6,817
Molokai	7	629	6	590
Lanai	1	12	-	-

1/ Hotels, apartment hotels, motels, etc., including condominium accommodations in rental pools for transient use.

2/ Condominium accommodations in rental pools for transient use.

3/ Includes Diamond Head and Kahala but not areas ewa and mauka (west and north) of the Ala Wai Canal. The 134 properties include 69 hotels (with 25,849 units), 42 condominiums (with 6,590 units), 22 apartment hotels (with 741 units), and 1 cottage facility (with 12 units).

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, June 1984.

Table 694.-- HOTEL EMPLOYMENT AND PAYROLL RATIOS: 1977 TO 1983

[All series in this table exclude condominium units in rental pools for transient occupancy]

Year	Hotel units, June 1/	Hotel employment, annual average 2/		Hotel payrolls, annual 2/		
		Total	Per unit 1/	Total ($1,000)	Per unit 1/ (dollars)	Per worker (dollars)
1977	40,221	22,313	0.555	175,602	4,366	7,870
1978	40,856	22,548	0.552	195,861	4,794	8,686
1979	41,726	23,735	0.569	218,954	5,247	9,225
1980	43,790	24,754	0.565	244,655	5,587	9,883
1981	42,365	24,626	0.581	264,433	6,242	10,738
1982	45,175	26,475	0.586	291,344	6,449	11,004
1983	45,315	26,888	0.593	329,267	7,266	12,246

1/ Revised from Data Book 1983, table 599.

2/ For workers covered by the Hawaii Unemployment Security Law.

Source: Hawaii Visitors Bureau, Visitor Plant Inventory (June issues) and Annual Research Report; Hawaii State Department of Labor and Industrial Relations, Employment and Payrolls in Hawaii (annual).

Table 695.-- HOTEL UNITS, EXISTING AND PLANNED, BY ISLANDS AND RESORT AREAS: JUNE 1984

Geographic area	Existing facilities, June 1984		Units under construction or planned, June 1984, by completion date		
	Properties	Units	1984	1985	No date
State total	457	63,956	208	300	9,888
Oahu	167	37,910	140	-	5,774
Waikiki and Kahala	134	33,192	140	-	4
Ala Moana	3	1,634	-	-	-
Honolulu	2	67	-	-	820
Airport	3	695	-	-	-
Leeward	17	1,446	-	-	-
Windward	8	876	-	-	4,950
Hawaii	72	7,209	4	-	1,944
Hilo-Honokaa	11	1,200	-	-	-
Naalehu-Ka'u	2	48	-	-	-
Volcano	1	37	-	-	-
Waimea-Kohala	11	1,415	-	-	150
Kona	47	4,509	4	-	1,794
Maui	142	12,695	-	-	1,365
Wailuku-Kahului	5	447	-	-	-
Lahaina-Napili	70	8,163	-	-	265
Hana	4	108	-	-	-
Kula-Makawao	3	19	-	-	-
Kihei-Wailea	60	3,958	-	-	1,100
Kauai	68	5,501	64	300	430
Lihue	10	810	-	-	-
Wailua-Kapaa	19	2,166	-	-	386
Hanalei	21	848	64	300	-
Poipu	16	1,643	-	-	44
Kalaheo	1	22	-	-	-
Kokee	1	12	-	-	-
Molokai	7	629	-	-	375
Lanai	1	12	-	-	-

Source: Hawaii Visitors Bureau, Visitor Plant Inventory, June 1984.

Table 696.-- PERCENT OF HOTEL UNITS OCCUPIED, BY GEOGRAPHIC AREAS: ANNUAL AVERAGES, 1980 TO 1983

Geographic area	1980	1981	1982	1983
State total	69.3	68.2	70.4	69.7
Oahu	72.3	74.1	77.8	75.8
Waikiki	71.7	73.9	77.7	76.6
Hawaii	51.0	44.9	44.0	44.7
Hilo	34.4	35.3	37.7	39.2
Kailua-Kona	59.0	49.4	46.9	47.0
Maui	74.2	70.3	73.9	75.2
West Maui	76.1	73.7	78.0	77.8
Other	68.4	58.3	61.4	67.0
Kauai	69.6	62.7	57.5	57.2
South	52.5	46.2	44.2	50.2
East	75.1	68.5	63.4	59.3

Source: Hawaii Visitors Bureau, 1982 Annual Research Report and records, as based on surveys by Pannell Kerr Forster for the Hawaii Hotel Association.

Table 697.-- HOTEL OCCUPANCY AND ROOM RATES, AND FOOD AND BEVERAGE SALES, BY ISLANDS: ANNUAL AVERAGES, 1982 AND 1983

Subject and year	The State	Oahu	Hawaii	Maui	Kauai
Percentage of occupancy:					
1982 1/	70.46	78.01	44.15	73.87	57.23
1983	69.73	75.83	44.66	75.21	57.15
Average daily room rate (dollars):					
1982 1/	51.87	44.88	47.25	75.02	58.51
1983	54.78	46.93	48.84	81.60	59.78
Average daily guest rate (dollars):					
1982 1/	26.48	23.44	24.57	35.82	28.84
1983	27.71	24.28	22.29	40.53	29.66
Average daily food sales per room (dollars):					
1982	20.52	17.10	21.31	30.33	23.96
1983	20.69	16.97	21.48	31.24	24.38
Average daily beverage sales per room (dollars):					
1982	7.57	6.00	8.85	12.21	8.05
1983	7.35	5.75	8.49	11.79	8.26
Average food sales per cover (dollars):					
1982	9.53	9.09	8.84	10.70	9.78
1983	9.41	8.63	9.07	11.11	10.09

1/ Revised from Data Book 1983, table 602.

Source: Pannell Kerr Forster, Trends in the Hotel Industry, Hawaii, December 1983.

Table 698.-- GENERAL EXCISE TAX BASE FOR RENTALS: 1974 TO 1984

[In thousands of dollars. Data are on a cash basis accounting and may be distorted by cutoffs, out-of-period adjustments (assessments and error corrections), taxpayer reporting in wrong categories, and computer problems]

Year reported 1/	Total	Hotel rentals	All other rentals 2/
1974	893,347	319,109	574,237
1975	1,019,792	365,919	653,873
1976	1,161,955	433,300	728,655
1977 3/	1,274,918	482,990	791,929
1978 3/	1,392,947	535,874	857,073
1979	1,699,947	672,098	1,027,848
1980	1,820,715	708,620	1,112,095
1981	2,040,505	770,705	1,269,800
1982	2,265,287	844,926	1,420,361
1983	2,470,820	876,227	1,594,593
1984	2,743,855	984,518	1,759,337

1/ Calendar year in which reported, including "prior years" reports. Income received in December is reported the following January, hence these annual totals generally refer to an "income year" ended November 30.

2/ Includes residential, office, automobile, and equipment rentals, and land leases.

3/ Partly estimated.

Source: Hawaii State Department of Taxation, "General Excise and Use Tax Base" (annual tabular release).

Table 699.-- MOTION PICTURE AND TELEVISION PRODUCTION: 1976 TO 1984

Year	Number of features filmed				Employment	
	Total	Feature films		Television specials and series 3/	Total	Direct only
		For theater viewing	For TV viewing			
1976	31	3	1	27	918	622
1977	63	4	5	54	1,265	856
1978	58	3	5	50	1,610	1,091
1979	54	6	8	40	2,543	1,723
1980 4/ .	58	6	2	50	1,551	1,051
1981 5/ .	54	2	1	51	1,244	843
1982	66	1	3	62	2,625	1,567
1983	63	1	2	60	2,575	1,745
1984	76	2	2	72	2,720	1,850

Year	Gross budgets 1/ (millions of dollars)			Expenditures in Hawaii 2/ (millions of dollars)	Tax revenues generated (millions of dollars)	Spending effect on economy (millions of dollars)
	Total	Feature films and TV specials and series	TV commercials and related advertising			
1976	26	20	6	11	1.01	25.0
1977	39	30	9	16	1.51	36.4
1978	45	36	9	22	2.04	50.0
1979	78.5	63.5	15.0	34.75	3.14	79.0
1980 4/ .	47.5	36.5	11.0	21.2	1.9	48.2
1981 5/ .	40.0	32.0	8.0	17.0	1.5	38.7
1982	50.0	37.6	12.4	31.6	2.98	71.9
1983	65.5	41.2	24.3	35.2	3.32	80.1
1984	77.1	53.4	23.7	38.2	3.54	86.9

1/ Includes post-production costs out of State.

2/ For feature films and television specials and series.

3/ Each program in a series counted separately.

4/ Activity affected by a prolonged strike of the Screen Actors Guild and changes in immigration regulation enforcement policies, which brought filming of foreign television commercials to a virtual halt.

5/ Activity affected by a writers' strike, directors' strike, and continuation of the strict enforcement of immigration regulations.

Source: Hawaii State Department of Planning and Economic Development, Film Industry Branch, records.

Table 700.-- NUMBER, 1982 TO 1984, AND GROSS SALES, 1981 AND 1982, OF LIQUOR LICENSEES, FOR OAHU

Class of licensee	Licenses in effect, June 30			Gross liquor sales of licensees, year ended June 30 1/ ($1,000)	
	1982	1983	1984	1981	1982
All categories	1,322	1,339	1,388	373,635	406,350
Cabaret	38	38	40	13,337	17,101
Club	16	16	15	3,030	3,230
Dispenser 2/	705	713	737	123,733	133,192
Retail 3/	499	511	535	90,818	95,151
Wholesale	30	26	26	125,345	136,915
Manufacturer	4	4	3	1,101	1,576
Vessel	20	20	20	1,196	1,172
Hotel	9	9	10	15,075	18,014
Solicitor	1	2	2	-	-

1/ Tabulation discontinued after 1982.
2/ Bars, restaurants, etc.
3/ Package goods stores, including supermarkets, drug stores, etc.
Source: City and County of Honolulu, Department of Finance, Liquor Commission, Fifty-Second Annual Report of the Liquor Commission, 1983-1984, p. 11, and records.

Table 701.-- LIQUOR AND TOBACCO TAX BASES: 1978 TO 1983

[Wholesale value, in thousands of dollars. Excludes sales on military bases]

Year 1/	Liquor tax base 2/			Tobacco tax base
	Total	Base for taxes paid	Base for taxes contested	
1978	93,560	93,560	-	28,082
1979	111,588	88,859	22,729	31,020
1980	122,848	42,691	80,157	33,275
1981	132,513	49,182	83,332	35,151
1982	149,859	34,865	114,994	37,338
1983	145,935	14,009	131,927	49,580

1/ Calendar year in which reported; data accordingly refer in general to liquor and tobacco sales for 12-month periods ended November 30.

2/ In 1979, several major distributors legally contested the State liquor tax law. Tax revenues that otherwise would have been collected under this law are being held in escrow until the courts rule on the case.

Source: Hawaii State Department of Taxation, "Liquor Tax Base, Collections and Permits; Tobacco Tax Base, Collections and Licenses" (annual release), and records.

Table 702.-- APPARENT CONSUMPTION OF DISTILLED SPIRITS, TOTAL AND PER CAPITA: 1973 TO 1982

Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)	Year	Total (1,000 wine gal.)	Per capita 1/ (wine gal.)
1973	1,809	2.01	1978	2,160	2.14
1974	1,947	2.11	1979	2,175	2.09
1975	1,970	2.09	1980	2,175	2.06
1976	2,024	2.09	1981	2,165	2.03
1977	2,190	2.21	1982	2,155	1.98

1/ Based on estimated de facto population (from *Data Book 1983*, table 3).

Source: Distilled Spirits Council of the United States, Inc., *Annual Statistical Review 1982, Distilled Spirits Industry* (1983), p. 40.

Table 703.-- ALCOHOL BEVERAGE APPARENT CONSUMPTION AND PUBLIC REVENUES, BY TYPE OF BEVERAGE: 1975 TO 1982

Year	Apparent consumption (1,000 wine gallons)			Revenues from State and local collections 1/ ($1,000)			
	Distilled spirits	Wine	Beer	Total	Distilled spirits	Wine	Beer
1975 ..	1,970	1,589	21,793	19,977	8,310	1,778	9,889
1976 ..	2,024	1,811	22,320	22,083	9,297	1,590	11,196
1977 ..	2,095	1,901	24,490	24,775	10,076	1,786	12,913
1978 ..	2,160	2,493	21,390	26,878	11,558	2,661	12,660
1979 ..	2,200	2,427	25,110	25,921	10,135	3,266	12,520
1980 ..	2,175	2,685	27,621	14,138	5,081	1,844	7,149
1981 ..	2,165	2,628	29,633	15,367	5,240	1,936	8,190
1982 ..	2,155	2,879	31,149	11,790	3,855	1,556	6,378

1/ Major part of revenues for 1980, 1981, and 1982 held in escrow pending a court decision because liquor law has been challenged by some dealers. Escrow revenues not included but subject to future collection.

Source: Distilled Spirits Council of the United States, Inc., *Public Revenues from Alcohol Beverages* (annual).

Table 704.-- FUNERAL SERVICE AND CREMATORY CHARACTERISTICS: 1939 TO 1982

Year	Number of establishments	Receipts ($1,000)	Deaths occurring in State	Receipts per death (dollars)
All establishments:				
1939 1/	5	208	3,128	66
1948 2/	13	1,171	3,104	377
1954	16	1,103	3,000	368
1958	19	1,413	3,185	444
1963	20	2,015	3,709	543
1967	24	2,531	3,973	637
1972	24	3,764	4,483	840
Establishments with payroll:				
1972	21	3,728	4,483	832
1977 3/	23	5,556	4,725	1,176
1982	20	6,452	5,495	1,174

1/ Data refer to "funeral directors and embalmers."

2/ "Funeral service" only. There was also one crematory (receipts withheld to avoid disclosure).

3/ Revised by Bureau of the Census from figures initially published.

Source: U.S. Bureau of the Census, Census of Business: 1939, Alaska, Hawaii and Puerto Rico (1943); Census of Business - 1948, Hawaii, Bull. No. 1-RWS-51 (ND); 1954 Census of Business, Area Bull. S-1-52 (1956); 1958 Census of Business, BC58-SA52 (1960); 1963 Census of Business, BC63-SA13 (1965); 1967 Census of Business, BC67-SA13 (1969); 1972 Census of Selected Service Industries, SC72-A-12 (July 1974); 1977 Census of Service Industries, SC77-A-12 (Dec. 1979) (data later revised); 1982 Census of Service Industries, SC82-I-4(P) (April 1984).

Section 24

FOREIGN AND INTERSTATE COMMERCE

This section includes data on the flow of goods, services, and capital between Hawaii and the rest of the world, with particular emphasis on trade and investment involving foreign countries.

Imports to Hawaii from foreign nations rose from $340 million in 1973 to $1.8 billion in 1983. Exports to foreign countries amounted to only $73 million in 1973, but by 1983 reached $203 million. (These figures, it should be noted, refer to merchandise imports and exports through the Honolulu Customs District. They do not necessarily represent exports of commodities originating in Hawaii, nor imports for direct consumption within the State.)

Trade with the Mainland United States has similarly risen in the past decade. Merchandise received from the Mainland increased from $1.2 billion in 1970 to $3.4 billion in 1979, the most recent year available. Estimates of the value of merchandise exported to the Mainland are no longer available.

Among the foreign nations, Hawaii's leading trading partners in 1983 were Indonesia for imports and Japan for exports. Imports from Indonesia amounted to $629 million, or 34 percent of the total, while exports to Japan reached $72 million or 35 percent of all foreign exports. About 68 percent of all imports for consumption were petroleum and natural gas products and monolithic integrated circuits.

Honolulu Foreign Trade Zone No. 9 handled merchandise valued at $48 million in fiscal 1983. Merchandise handled by Subzone No. 9A, the PRI refinery, was valued at $1.5 billion, almost all of it in petroleum and petroleum products.

Foreign-owned U.S. firms in Hawaii operated 276 establishments in 1982, and employed 14,000 persons with an annual payroll of $198 million. Foreign investments in Hawaii exceeded $215 million in 1983.

Sources for statistics on interstate and foreign commerce include the U.S. Bureau of the Census and Bureau of Economic Analysis, Foreign Trade Zone No. 9 and Subzone No. 9A, and the Hawaii International Services Agency. Further information appears in cargo data by origin and destination, compiled by the Army Corps of Engineers and cited in Section 18.

Comparable data for the nation as a whole appear in Section 31 of Statistical Abstract of the United States: 1984. Long-term Island trends are summarized in Historical Statistics of Hawaii, Section 21.

Table 705.-- INTERSTATE AND FOREIGN TRADE: 1970 TO 1983

[Merchandise imports and exports, foreign and domestic, in millions of current dollars]

Year	Merchandise imports: Total	Merchandise imports: Domestic	Merchandise imports: Foreign	Merchandise exports, total 1/
1970 2/	1,431.5	1,256.8	174.7	358.6
1971	1,258.1	1,034.6	223.6	431.8
1972	1,462.5	1,218.8	243.7	373.5
1973	1,892.9	1,577.9	314.9	572.6
1974	2,100.0	1,962.9	547.2	1,037.9
1975	2,843.0	2,044.8	798.2	875.3
1976	3,310.8	2,488.8	822.0	879.2
1977	3,792.1	2,885.1	907.1	936.5
1978	3,973.1	2,967.9	1,005.2	1,032.8
1979	5,001.2	3,897.0	1,104.3	1,182.3
1980	6,239.4	4,779.7	1,459.7	1,562.4
1981	6,241.3	4,716.1	1,525.2	1,289.1
1982	5,808.9	4,575.4	1,233.5	1,274.4
1983...........	6,243.7	4,878.2	1,365.5	1,439.2

1/ Not available separately for foreign and domestic exports.

2/ For data back to 1958, see source.

Source: Hawaii State Department of Planning and Economic Development, Hawaii's Income and Expenditure Accounts: 1958-1980 (March 1982), pp. 172-173, as updated to 1983.

Table 706.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT: 1973 TO 1983

[Value, in millions of dollars, of U.S. imports and exports entered or exported through the Honolulu Customs District. The data may include imports intended for consumption on the Mainland and exports originated on the Mainland]

Year	General imports 1/	Imports for consumption 1/	Exports of foreign and domestic merchandise 2/
1973	340.1	304.9	72.8
1974	645.3	605.5	115.2
1975	784.4	757.6	95.7
1976	915.1	876.5	66.2
1977	1,038.2	988.1	98.3
1978	1,184.5	1,126.4	137.8
1979	1,334.6	1,238.5	176.1
1980	1,842.0	1,721.4	174.3
1981	1,982.2	1,525.4	237.7
1982	1,732.7	1,509.4	219.0
1983	1,828.0	1,433.5	203.3

1/ Customs value basis. Excludes vessels under their own power or afloat and shipments valued under $251.

2/ Totals are on f.a.s. (free alongside ship) basis.

Source: U.S. Bureau of the Census, U.S. Foreign Trade: Highlights of Exports and Imports, FT 990 (for 1973) and Highlights of U.S. Export and Import Trade, FT 990 (1974 and later), cumulative totals in December issues.

Table 707.-- FOREIGN TRADE THROUGH THE HONOLULU CUSTOMS DISTRICT, BY METHOD OF TRANSPORTATION: 1983

[See headnote to preceding table]

Category and method of transportation	Value 1/ (million dollars)	Shipping weight (million pounds)
General imports, all methods 2/	1,828.0	(NA)
Vessel	1,179.1	8,572.4
Air	696.9	25.6
Imports for consumption, all methods 3/	1,433.5	(NA)
Exports, all methods 2/	203.3	(NA)
Vessel	119.7	1,151.8
Air	60.2	18.5

NA Not available.

1/ Customs value basis for imports; f.a.s. (free alongside ship) value basis for exports. See source for definitions.

2/ Includes categories not tabulated by method of transportation, not shown separately.

3/ Not available by method of transportation.

Source: U.S. Bureau of the Census, Highlights of U.S. Export and Import Trade, FT 990, December 1983, tables E-4 and I-11.

Table 708.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY REGION OF ORIGIN OR DESTINATION: 1982 AND 1983

[In dollars. Includes all foreign trade through the Honolulu Customs District, and thus may include imports intended for consumption in other States or exports originated in other States. Excludes imports intended for consumption in Hawaii but entering through other customs districts, and exports originated in Hawaii but shipped through other customs districts]

Region	Imports for consumption		Exports of domestic merchandise	
	1982	1983	1982	1983
All regions	1,732,729,184	1,827,978,905	218,969,258	203,322,156
North America 1/	21,414,332	26,766,209	10,537,643	10,942,958
Latin America 2/	22,686,281	33,895,168	164,808	5,246,149
Europe	108,182,005	93,827,196	10,600,805	4,175,719
Asia	1,534,210,923	1,606,338,743	116,662,141	121,884,940
Australia and Oceania ...	45,661,243	66,320,325	80,853,800	60,679,848
Africa	574,400	831,264	150,061	392,542

1/ Excluding Latin America.
2/ Includes Central and South America, Bermuda, and the Caribbean.
Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade (annual).

Table 709.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN OR DESTINATION: 1983

[See headnote to preceding table]

Country 1/	Total	Imports for consumption	Exports of domestic merchandise
All countries	2,031,301,061	1,827,978,905	203,322,156
Indonesia	637,819,587	628,959,275	8,860,312
Japan	377,068,021	305,009,384	72,058,637
Singapore	220,699,444	218,595,217	2,104,227
Malaysia	163,890,331	163,199,469	690,862
Taiwan	132,604,325	116,072,794	16,531,531
Philippines	75,077,670	69,204,937	5,872,733
Australia	63,751,689	44,581,572	19,170,117
Korea, Republic of	40,946,056	32,016,196	8,929,860
Canada	37,709,167	26,766,209	10,942,958
France	31,733,130	31,718,130	15,000
New Zealand	27,249,104	17,519,591	9,729,513
Hong Kong	26,297,488	22,768,335	3,529,153
China, People's Republic of .	25,784,773	25,737,899	46,874
United Kingdon	19,664,821	17,137,431	2,527,390
Trust Territory of the Pacific Islands	14,971,493	870,429	14,101,064
Italy	13,615,667	12,957,626	658,041
Peru	13,291,982	13,218,085	73,897
Germany, West	11,666,138	10,799,153	866,985
Bahamas	11,541,728	11,539,336	2,392
India	10,634,647	8,596,910	2,037,737
Switzerland and Liechtenstein	10,228,143	10,208,432	19,711
French Pacific Islands	8,598,515	166,715	8,431,800
Bahrain	6,517,000	6,517,000	-
Papua New Guinea	6,120,624	110,350	6,010,274
Netherlands Antilles	6,104,367	6,104,367	-

[1/] Shown separately for the 25 leading countries in total foreign trade through the District.

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade, A Statistical Digest, International Business Series No. 37 (August 1984).

Table 710.-- IMPORTS OF PETROLEUM, NATURAL GAS, AND PRODUCTS THEREOF THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1983

[See headnote to table 708]

Country	Dollars
All countries	778,159,428
Indonesia	627,847,100
Malaysia	46,214,250
China, People's Republic of	20,008,628
Australia	17,530,653
Singapore	13,825,335
Peru	13,215,968
Bahamas	11,443,500
India	8,310,294
Canada	7,141,131
Bahrain	6,517,000
Netherlands Antilles	6,104,367
Japan	1,202

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade 1983, A Statistical Digest (International Business Series No. 37, August 1984).

Table 711.-- IMPORTS OF MONOLITHIC INTEGRATED CIRCUITS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY COUNTRY OF ORIGIN: 1983

[See headnote to table 708]

Country	Dollars
All countries	462,446,289
Singapore	199,641,869
Malaysia	111,574,342
Taiwan	71,016,479
Philippines	62,203,617
Japan	11,447,333
Korea, Republic of	5,329,225
United Kingdom	1,184,126
Germany, West	37,610
France	11,135
Thailand	288
Hong Kong	265

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade 1983, A Statistical Digest (International Business Series No. 37, August 1984).

Table 712.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY DETAILED COMMODITY CLASSIFICATION: 1983

[See headnote to table 708]

Commodity classification	Imports for consumption	Exports of domestic mdse.
All imports	1,827,978,905	203,322,156
Total animal and vegetable products	91,975,174	32,022,289
Live animals	445,939	46,213
Meats	13,732,501	1,218,010
Fish and shellfish	23,324,261	84,331
Dairy products, birds eggs	1,222,700	266,561
Hides, skins and leather; furskins	40,819	118,134
Live plants and seeds	165,564	1,246,493
Cereal grains; milled grain products; malt and starches	1,332,001	1,032,221
Vegetables	3,417,878	1,576,651
Edible nuts and fruits	5,093,202	9,700,318
Sugar; cocoa, confectionery	575,229	8,202,487
Coffee, tea, mate, and spices	427,882	572,056
Beverages	25,106,396	3,493,357
Tobacco and tobacco products	598,244	401,667
Animal and vegetable oils, fats and greases	512,471	112,109
Other animal and vegetable products	15,980,087	3,951,681
Total wood and paper; printed matter	19,183,002	6,446,704
Wood and wood products	3,864,638	2,806,331
Cork, bamboo, rattan, willow, chip; related products	1,570,802	1,619
Wood veneers, plywood, wood-veneer assemblies, and boards	217,282	117,303
Paper, paperboard, and products thereof	10,341,359	2,710,391
Books, pamphlets, and other printed materials	3,188,921	811,060
Total textile fibers and products	27,044,971	1,053,461
Textile fibers and wastes; yarns and threads	144,242	67,524
Cordage	131,177	7,052
Woven fabrics	10,642,599	90,359
Specialty fabrics, wadding, felt, fish nets	643,632	104,936
Textile furnishings	3,260,359	35,829
Wearing apparel and accessories	11,108,686	598,359
Miscellaneous textile products; rags and scrap cordage	1,114,276	149,402

Continued on next page.

Table 712.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY DETAILED COMMODITY CLASSIFICATION: 1983 -- Con.

Commodity classification	Imports for consumption	Exports of domestic mdse.
Total chemicals and related products	789,761,367	81,052,191
Benzoid chemicals and products	413,582	2,976
Chemical elements, inorganic and organic ...	143,500	175,881
Drugs and related products	190,468	2,472,688
Synthetic resins and plastics; rubber	8,400	12,531
Flavoring extracts, essential oils	10,768	504
Glue, gelatin, and related products	31,095	4,928
Aromatic substances; perfumery, cosmetics ..	7,408,630	193,812
Surface-active agents, soap and synthetic detergents	214,856	117,626
Dyeing products, pigments, inks, paints	28,043	61,960
Petroleum, natural gas and products thereof	778,159,428	77,526,104
Fertilizers and fertilizer materials	3,057,070	124,593
Explosives, pesticides, photographic chemicals	-	310,513
Fatty substances; camphors, isotopes, waxes, etc.	95,527	48,075
Total nonmetallic minerals and products	18,203,850	627,814
Nonmetallic minerals except ceramic and glass	9,217,753	422,363
Ceramic products	6,023,901	80,183
Glass and glass products	2,962,196	125,268
Total metals and metal products	744,209,693	65,931,158
Metals, their alloys; basic shapes; forms ..	32,883,009	8,100,712
Metal products	10,604,076	1,837,529
Machinery and mechanical equipment	11,958,879	12,611,203
Electrical machinery and equipment	517,366,393	14,047,716
Transportation equipment	171,397,336	29,333,998
Total specified miscellaneous products	118,039,312	15,957,759
Footwear; headgear; gloves; luggage; flatgoods	25,543,332	144,377
Opticals, scientific instruments, photographic equipment	21,155,855	7,296,742
Musical instruments, parts and accessories .	678,400	621,140
Furniture; non-textile floor coverings	10,909,279	463,796
Arms, sporting goods, toys, wheeled goods ..	7,278,164	4,284,199
Jewelry and related articles, pearls, beads, etc.	26,706,530	702,332
Buttons, buckles, fasteners, trimmings, feathers	1,001,472	42,253

Continued on next page.

Table 712.-- IMPORTS AND EXPORTS THROUGH THE HONOLULU CUSTOMS DISTRICT, BY DETAILED COMMODITY CLASSIFICATION: 1983 -- Con.

Commodity classification	Imports for consumption	Exports of domestic mdse.
Specified miscellaneous products -- con.		
Combs; hair ornaments; brooms; rollers; umbrellas; canes	546,764	35,498
Matches, candles, blastings, smokers articles	2,053,033	14,604
Pens, pencils, leads, crayons, and chalk	1,693,109	16,775
Works of arts, antiques	4,083,526	1,330,519
Rubber and plastic products	9,111,474	637,589
Products not elsewhere enumerated	6,764,625	90,171
Nonenumerated products	513,749	277,764
Total special classification provisions	18,508,514	230,780
Total temporary provisions	1,053,022	-

Source: Hawaii State Department of Planning and Economic Development, Hawaii International Services Agency, Hawaii's Foreign Trade, 1983, A Statistical Digest (International Business Series No. 37, August 1984).

Table 713.-- FIREWORKS IMPORTED INTO THE HONOLULU CUSTOMS DISTRICT: 1978 TO 1983

Year	Pounds	Value (dollars)
1978	1,280,027	1,590,006
1979	730,375	1,174,513
1980	1,654,953	2,059,943
1981	1,156,260	1,571,283
1982	871,304	1,210,675
1983	76,537	101,438

Source: U.S. Bureau of the Census, Foreign Trade Statistics, IA 253 (annual tabulations, 1978-1982) and IA 245-X (1983).

Table 714.-- FOREIGN-TRADE ZONE NO. 9 OPERATIONS: 1968 TO 1984

[Years ended June 30 through 1976 and September 30 thereafter.
Foreign-Trade Zone No. 9 began operation June 15, 1966]

Fiscal years	Firms using zone	User employment at zone 1/	Value of merchandise ($1,000)		Revenue (dollars)	Expenditures (dollars)
			In/out	Exports		
1968 ..	82	42	6,279	498	88,060	122,718
1969 ..	94	56	10,078	1,187	120,990	122,628
1970 ..	124	65	11,682	1,850	160,438	156,424
1971 ..	138	57	17,363	3,147	206,159	193,450
1972 ..	132	58	20,648	2,894	289,301	229,379
1973 ..	140	83	23,442	2,775	267,393	260,251
1974 ..	139	113	25,394	6,140	355,737	325,633
1975 ..	148	131	29,828	6,317	463,008	415,371
1976 ..	179	139	24,396	4,576	481,172	429,496
1977 ..	205	145	25,702	3,956	700,470	606,720
1978 ..	191	193	29,095	4,395	835,004	574,044
1979 ..	204	221	34,928	4,450	545,380	568,607
1980 ..	211	263	37,118	6,396	638,961	615,361
1981 ..	186	274	46,188	12,093	750,676	714,750
1982 ..	178	263	52,483	11,957	744,741	780,932
1983 ..	190	203	48,312	11,839	965,590	1,032,675
1984 ..	198	224	46,312	10,596	1,107,107	996,236

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 715.-- FOREIGN-TRADE SUBZONE NO. 9A OPERATIONS: 1972 TO 1984

[Years ended June 30 through 1976 and September 30 thereafter. Foreign-Trade Subzone No. 9A began operation April 7, 1972]

Fiscal years	User employment at subzone 1/	Merchandise, in/out		Exports	
		Quantity (1,000 short tons)	Value ($1,000)	Quantity (1,000 short tons)	Value ($1,000)
1972 ..	45	453.0	9,300	41.1	1,106
1973 ..	73	3,250.0	76,760	1,178.1	33,614
1974 ..	95	3,046.8	156,454	564.0	52,436
1975 ..	(NA)	3,794.6	340,996	707.1	72,003
1976 ..	159	5,755.7	534,023	815.2	80,719
1977 ..	156	6,349.6	608,815	893.2	83,134
1978 ..	139	6,837.5	705,711	1,178.5	117,247
1979 ..	149	6,507.8	862,559	1,070.1	149,646
1980 ..	161	6,408.9	1,471,841	1,184.5	295,528
1981 ..	182	6,188.2	1,728,457	1,396.3	406,084
1982 ..	203	6,781.3	1,758,180	1,952.9	531,437
1983 ..	203	6,944.5	1,491,063	2,047.6	461,298
1984 ..	205	7,405.6	1,348,745	1,995.5	363,698

NA Not available.

1/ For firms occupying facilities on a continuing basis only.

Source: Hawaii State Department of Planning and Economic Development, Foreign-Trade Zone No. 9, annual reports and records.

Table 716.-- CHARACTERISTICS OF ESTABLISHMENTS OF FOREIGN-OWNED U.S. FIRMS IN HAWAII: 1980 TO 1982

Kind of establishment and year	Firms	Establishments	Employment	Payroll, annual ($1,000)
All foreign-owned firms:				
1980	91	263	11,738	157,084
1981	97	276	12,495	175,501
1982	100	276	14,036	198,470
Manufacturing:				
1980	...	14	723	14,055
1981	...	10	728	16,293
1982	...	10	620	14,017
Nonmanufacturing:				
1980	...	249	11,015	143,029
1981	...	266	11,767	159,208
1982	...	266	13,416	184,453

Source: U.S. Bureau of the Census, Selected Characteristics of Foreign-Owned U.S. Firms: 1980, Series FOF, No. 4 (June 1982), Selected Characteristics of Foreign-Owned U.S. Firms: 1981, Series FOF, No. 5 (March 1983), and Selected Characteristics of Foreign-Owned U.S. Firms: 1982, Series FOF, No. 6 (April 1984).

Table 717.-- FOREIGN DIRECT INVESTMENT IN HAWAII, JAPANESE AND NON-JAPANESE: 1980

[Data for Hawaii nonbank affiliates of U.S. business enterprises owned 10 percent or more, directly or indirectly, by a foreign person]

Subject	Total in Hawaii	Country of ultimate beneficial owner	
		Japan	Other countries
Number of affiliates:			
With property, plant, and equipment	179	79	100
With employment	173	77	96
Gross book value of property, plant, and equipment of affiliates (millions of dollars)	1,020	565	455
Employment of affiliates	15,509	9,034	6,475
Wages and salaries of affiliates (millions of dollars)	173	83	90

Source: U.S. Department of Commerce, Bureau of Economic Analysis, Foreign Direct Investment in the United States, 1980 (October 1983), pp. 74, 84, 119, 122, and 127.

Table 718.-- FOREIGN DIRECT INVESTMENT IN HAWAII: 1980 AND 1981

[See headnote to preceding table]

Subject	1980	1981
Employment, by country of ultimate beneficial owner	15,509	16,143
Canada	745	669
European countries 1/	1,498	1,542
Japan	9,034	9,155
Other countries	4,232	4,777
Gross book value of property, plant, and equipment (millions of dollars)	1,020	1,064
Land owned (thousands of acres)	96	110

1/ For further information, see source.

Source: U.S. Bureau of Economic Analysis, "U.S. Affiliates of Foreign Companies: Operations in 1981," Survey of Current Business, November 1983, pp. 19-34.

Table 719.-- EMPLOYMENT RELATED TO MANUFACTURED EXPORTS: 1977, 1980 AND 1981

Subject	1977	1980	1981
Employment related to manufactured exports, total	2,700	6,100	6,400
Manufacturing industries	700	1,100	1,200
Nonmanufacturing industries	2,000	5,000	5,200
Employment related to manufactured exports as percent of --			
Total civilian employment 1/	0.7	1.7	1.5
Total private sector employment 2/	1.0	2.0	1.9

1/ The U.S. average in 1981 was 4.7.

2/ The U.S. average in 1981 was 5.6.

Source: U.S. Bureau of the Census, 1977 Census of Manufactures, Origin of Exports of Manufactured Products, MC77-SR-12 (June 1981), table 2a, and 1981 Annual Survey of Manufactures, Origin of Exports of Manufactured Products (Including revised 1980 data), M81(AS)-5 (May 1983), pp. 14-15.

Table 720.-- AGRICULTURAL LANDHOLDINGS OF FOREIGN OWNERS: DECEMBER 31, 1983

Subject	Amount
Parcels owned by foreigners	55
Individuals	23
Organizations	32
Acres owned by foreigners	59,788
Percent of all privately owned agricultural land 1/	3.0
Individuals	7,301
Organizations	52,487
Value of foreign-owned agricultural land ($1,000):	
At time of acquisition	51,194
Adjusted current value	53,811

1/ The percent for Hawaii ranked fourth among the 50 States, exceeded only by Maine (14.3 percent), Georgia (3.3), and South Carolina (3.2), and well above the national percentage (1.1).

Source: U.S. Department of Agriculture, Economic Research Service, Foreign Ownership of U.S. Agricultural Land Through December 31, 1983 (Staff Report AGES 840328, April 1984), pp. 7, 10, and 13.

Table 721.-- FOREIGN INVESTMENTS IN HAWAII, TOTAL AND JAPANESE: ANNUALLY, 1959 TO 1984

[In thousands of dollars. Estimates based on incomplete reporting]

Year	Total foreign investments	Investments by Japanese
Total completed	2,263,532	1,578,276
1970 and earlier years	53,220	48,020
1971	8,300	8,300
1972	97,167	95,717
1973	163,935	91,635
1974	175,134	139,684
1975	27,250	12,250
1976	70,740	55,940
1977	32,200	17,800
1978	94,500	13,500
1979	308,570	165,250
1980	139,485	80,100
1981	100,525	62,300
1982	628,730	489,880
1983	215,676	196,900
1984, to August	148,100	101,000
Future completions	257,300	124,500

Source follows next table.

Table 722.-- FOREIGN INVESTMENTS IN HAWAII, BY COUNTRY OF INVESTOR AND TYPE OF INVESTMENT: CUMULATIVE, 1959 TO 1984

[In thousands of dollars. Estimates based on incomplete reporting]

Country of investor and type of investment	Amount
Cumulative total 1/	2,263,532
Country of investor:	
Australia	42,600
Bermuda	15,000
British West Indies	575
Canada	160,220
France	15,900
Hong Kong	226,425
Japan	1,578,276
Korea	9,450
Netherlands	(NA)
Netherlands Antilles	34,285
New Herbrides (Vanuatu)	2,500
New Zealand	(NA)
Taiwan	13,500
United Kingdom	164,801
Type of investment:	
Agriculture	1,100
Banks	56,419
Condominiums	450,800
Golf courses	39,267
Hotels	634,000
Manufacturing	18,030
Other real estate	770,605
Restaurants	9,325
Retailing and wholesaling	75,265
Science and education	51,001
Miscellaneous	157,720

NA Not available.

1/ Excludes $257.3 million in projects to be completed after August 1984.

Source: Hawaii State Department of Planning and Economic Development, International Services Branch, A Listing of Foreign Investments in Hawaii (International Business Series No. 39, October 1984).

BIBLIOGRAPHY

This volume is the eighteenth in a series published by the Hawaii State Department of Planning and Economic Development and its predecessor agencies. The first was Statistical Abstract of Hawaii, 1962, issued by the Department of Planning and Research in 1962. After a four-year hiatus, updated versions titled The State of Hawaii Data Book were published by the Department of Planning and Economic Development in 1967, 1968, and annually beginning in 1970. Most of the volumes issued prior to the present edition are now out of print, but copies can be consulted in the DPED Library, Hawaii State Library, University of Hawaii and community college libraries, Honolulu Municipal Reference Library, and other collections throughout the State.

Additional information regarding specific statistical sources can be found in the introductory statements to each section of the Data Book, in footnotes and source references to the various tables, and in other DPED publications.

Although most of the series in the Data Book are shown only for recent years, earlier figures in many cases can be found in Historical Statistics of Hawaii, by Robert C. Schmitt. This book, published by the University Press of Hawaii in 1977, contains 711 pages of narrative and tables on the development of statistics in Hawaii since the 18th century. Copies are available from the University of Hawaii Press and various book stores for $30.00.

Many statistics in the Data Book also appear in Atlas of Hawaii and Ronck's Hawaii Almanac, likewise published by the University of Hawaii Press. Atlas of Hawaii (second edition, 1983) was compiled by the University of Hawaii Department of Geography, and is sold for $29.95. Ronck's Hawaii Almanac, compiled and edited by Ronn Ronck, appeared in 1984 and costs $3.95.

Another useful publication is Statistical Sources in Hawaii: Reference Guide to Materials Available at the Hawaii State Library, compiled by Masae Gotanda and published by the Office of Library Services of the Hawaii State Department of Education in November 1978.

Privately published works of general statistical reference include Hawaii Facts and Figures and All About Business in Hawaii. Hawaii Facts and Figures is a publication of the Chamber of Commerce of Hawaii, first issued (under a different title) almost fifty years ago. The most recent edition appeared early in 1984, with statistics through 1983; copies are available from the Chamber for $2.00. All About Business in Hawaii 1984 is the 12th in an annual series published by Crossroads Press, Inc. The current edition costs $3.50.

Two other privately published reports containing useful statistics are the annual economic reviews of the two largest banks in the State. The current editions are *Hawaii 1984*, published by the Bank of Hawaii in the fall of 1984, and *Hawaii in 1983*, issued by the First Hawaiian Bank as a supplement to its bimonthly *Economic Indicators* for March-April 1984. Greater detail appears in *Hawaii's Economic Indicators: Sources, Definitions, and Trends*, published by the First Hawaiian Bank in March 1980.

The County of Hawaii, Department of Research and Development, has published its own *County of Hawaii Data Book 1980*, presenting 264 pages of statistics for the Big Island. This report, dated December 1980, is available for $7.50 (postpaid, $10.00).

A similar report for Kauai, *1983 Kauai Statistical Review: An Annual Report of the County's Economic Indicators*, is issued by the Kauai Office of Economic Development. The most recent edition, presenting data for 1983, was released in 1984 and contains 25 pages of tables.

Persons interested in comparisons between Hawaii and other States or the nation as a whole should consult the *Statistical Abstract of the United States* and its companion volumes, the *State and Metropolitan Area Data Book* and *County and City Data Book*. The *Abstract* is an annual publication of the U.S. Bureau of the Census, initiated in 1878. The current edition is the 104th, dated 1984; copies are available for $23.00 (cloth) or $19.00 (paper) from the Superintendent of Documents, U.S. Government Printing Office, Washington, D. C. 20402. The *State and Metropolitan Area Data Book, 1982*, also available from GPO, costs $15.00. The *County and City Data Book, 1983* is sold by the same agency for $24.00. All three volumes are (or soon will be) on the shelves of most libraries.

Table A.-- PRINTING HISTORY OF THE STATE OF HAWAII DATA BOOK: 1962 TO 1984

Edition	Number of pages	Number of tables	Price (dollars)		Printing costs (dollars)	Number of copies printed
			Hawaii	Outside State		
1962 1/	128	243	1.00	1.00	(NA)	(NA)
1967	66	95	(NA)	(NA)	1,969.45	3,000
1968	69	99	1.00	1.00	2,969.20	3,000
1970	136	135	1.00	1.00	2,470.92	2,030
1971	159	152	2.00	2.00	4,149.60	2,000
1972 2/	227	210	4.00	5.00	6,245.00	3,000
1973	290	262	4.00	5.00	6,309.00	1,500
1974	306	292	4.00	5.00	9,330.00	2,000
1975	302	309	4.00	5.00	10,222.95	2,000
1976	312	335	4.00	5.00	9,901.13	2,000
1977	339	374	4.00	5.00	11,990.00	2,000
1978	379	425	4.00	5.00	8,900.00	2,000
1979	447	407	4.00	5.00	10,744.00	2,500
1980	545	496	5.00	10.00	12,335.00	2,500
1981	603	563	5.00	10.00	14,910.00	3,000
1982	596	566	5.00	10.00	15,633.00	3,000
1983	663	622	5.00	10.00	15,875.00	2,500
1984	762	724	5.00	15.00	17,556.00	2,000

NA Not available.

1/ The 1962 edition was titled Statistical Abstract of Hawaii, 1962. In addition, a 41-page, 57-table supplement, Historical Statistics of Hawaii, 1778-1962, was published and distributed without extra charge to persons receiving the regular edition.

2/ A 19-page supplement, State of Hawaii Census Tract Maps and Directory of Hawaii Map Sources, was included with each copy of the regular edition, and was not sold separately.

Source: DPED records.

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